the Goarnines (Intograma) Pending applications - Search notes are with

US-08-905-046-2.rai

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Release 3.1A John F. Collins, Biocomputing Research Unit. Copyright (c) 1993-1998 University of Edinburgh, U.K. Distribution rights by Oxford Molecular Ltd

protein . protein database search, using Smith-Waterman algorithm MasPar time 3.15 Seconds 36.626 Million cell updates/sec Fri Jun 16 15:51:26 2000; Tabular output not generated. MPsrch_pp uo u

>US-08-905-046-2 (1-8) from US08905046.pep 48 Description: Perfect Score: Sequence: Title:

1 SAVALTYS 8 PAM 150 Gap 15 Scoring table:

145341 seqs, 14437480 residues Searched:

Minimum Match 0% Listing first 45 summaries Post-processing:

a-issued 1:5A_COMB 2:5B_COMB 3:6_COMB 4:PCT_COMB 5:backfiles1 Database:

scale 0.382 Mean 14.380; Variance 37.613; Statistics:

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

																			-				
Pred. No.	1.83e+01	1.83e+01	1.83e+01	1.83e+01	5.85e+01	5.85e+01	7.78e+01	7.78e+01	7.78e+01	7.78e+01	1.03e+02	1.03e+02	.1.03e+02	1.81e+02	1.81e+02	1.81e+02	1.81e+02	1.81e+02	1.81e+02	2.39e+02	2.39e+02	2.39e+02	3.15e+02
Description	Sequence 1, Applicatio	12	4	m	'n	7	4	'n	2	10,	٠ ف	'n	Ξ	6	7,	12,	~	ý	Sequence 27, Applicati	80,	7, 7	4	Sequence 23, Applicati
d di	PCT-US96-0 S			US-08-460- S		US-08-460- S	PCT-US96-0 S	US-08-460- S	PCT-US96-0 S	US-08-483- S	US-08-460- S	PCI-US96-0 S	PCT-US96-0 S	PCT-US96-0 S	US-08-460- S					,		US-08-819- S	US-08-525- S
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Length	36	37	37	37	36	36	37	37	148	171	37	37	117	36	36	40	415	415	3218	84	375	375	22
% Query Match	100.0	100.0	100.0	100.0	91.7	91.7	9.68	89.6	9.68	9.68	87.5	87.5	87.5	83.3	83.3	83.3	83.3	83.3	83.3	81.3	81.3	81.3	79.2
Score	48	48	48	48	44	44	43	43	43	43	42	45	42	40	40	40	40	40	40	39	39	39	38
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Sequence 3, Applicatio Sequence 13, Applicatio Sequence 9, Applicatio Sequence 11, Applicati	,,,,,,	`	9,8,6,	11, 18,	Sequence 47, Applicati Sequence 14, Applicati Sequence 3, Applicatio Sequence 1, Applicatio
4 PCT-US96-0 S 4 PCT-US96-0 S 4 PCT-US96-0 S 2 US-08-483- S	1 US-08-460- 3 US-09-040- 3 US-09-081- 1 US-08-565-		US-08-808- US-08-808- US-09-050-	-08-473- F-US95-1	US-08-118- US-08-319- US-07-629- US-08-288-
2 37 2 51 2 147 2 170	0000		22 560	3257	.1 347 .1 386 .1 393 .1 398
38 79. 38 79. 38 79.	~~~		38 79.2 38 79.2 38 79.2		<i>c c c c c c c c c c</i>
22 2 2 2 4 2 4 2 4 2 4 2 4 2 4 2 4 2 4	3 5 5 8 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	0 0 0 0 20 0 4	8 8 8 8 8 9 7 8) W 4 4 0 0 0 11	4 4 4 4 6 6 4 70

ALIGNMENTS

36 A.A. PRT; Sequence 1, Application PC/TUS9608730 GENERAL INFORMATION: Sequence 1, Application PC/TUS9608730 STANDARD; RESULT 1 ID PCT-US96-08730-1 XX XXXXXX

APPLICANT: Cassels, Frederick
APPLICANT: Anderson, Jeffrey
APPLICANT: Carter, John Mark
APPLICANT: Carter, John Mark
TITLE OF INVENTION: Coli of the Family CSF-CFA./1
TITLE OF INVENTION: Coli of the Family CSF-CFA./1
CORRESPONDENCE ADDRESS:
ADDRESSEE: Glenna Hendricks
STREET: P.O. Box 2509
STATE: VAIRER USA COUNTRY: US

COMPUTER READABLE FORM:
MEDTUM TYPE: Floppy disk
COMPUTER: IBM PC COMPATIBLE
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION WHEER: PCT/US96/08730
FILING DATE: 03-JUN-1996
CLASSIFICATION: PCT/US96/08730 ATTORNEY/AGENT INFORMATION:
NAME: Hendricks, Glenna
REGISTRATION NUMBER: 32,535
REFERENCE/DOCKET NUMBER: PCT/C
TELECOMMUNICATION INFORMATION:
TELEFAX: (703) 591-4470
INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:

LENGTH: 36 amino acids TYPE: amino acid STRANDEDNESS: single TOPOLOGY: unknown MOLECULE TYPE: peptide AA.

37

PRT;

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STANDARD;
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      RESULT 3
ID US-08-460-617-4
XX
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                                                  XXXXX
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                                                                                                                                                                                                                                                                                   APPLICANT: Castels, Frederick
APPLICANT: Anderson, Jeffrey
APPLICANT: Carter, John Mark
TITLE OF INVENTION: Methods of Raising Antibodies Against E.
TITLE OF INVENTION: Coli of the Family CSF-CFA./1
CORRESPONDENCE: 15
CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ö
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                                                                                                                                                                                                                                                                                                                                                                                                                          COMPUTER READABLE FORM:
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: PCT/US96/08730
TTING DATE: 03-UUN-1996
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Length 37;
                                                  Score 48; DB 4; Length 36;
Pred. No. 1.83e+01;
0; Mismatches 0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Score 48; DB 4; L Pred. No. 1.83e+01;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ATTORNEY AGENT INFORMATION:
NAME: Hendricks, Glenna
REGISTRATION NUMBER: 32,535
REFERENCE/DOCKET NUMBER: PCT/US96/08730
TELECOMMUNICATION INFORMATION:
TELEPHONE: (703) 591-4470
TELEFAN: (703) 591-4470
INFORMATION FOR SEQ ID NO: 15:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           0; Mismatches
                                                                                                                                                                        PRT;
                                                                                                                                                                                                                                                               Sequence 15, Application PC/TUS9608730 GENERAL INFORMATION:
                                                                                                                                                                                                                                         Sequence 15, Application PC/TUS9608730
                                                                                                                                                                                                                                                                                                                                                                   ADDRESSEE: Glenna Hendricks
STREET: P.O. Box 2509
CITY: Fairfax
STATE: VA
COUNTRY: USA
ZIP: 22031
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  NT TYPE: internal
37 AA; 3732 MW; 7516 CN;
HYPOTHETICAL: NO
ANTI-SENSE: NO
FRAGMENT TYPE: Internal
JENCE 36 AA; 3629 MW; 7117 CN;
                                                                                                                                                                        STANDARD;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      37 amino acids
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unknown
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Query Match
Best Local Similarity 100.0%;
Matches 8; Conservative
                                                      Query Match
Best Local Similarity 100.0%;
Matches 8; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              TYPE: amino acid
STRANDEDNESS: si
                                                                                                                                                               JT 2
PCT-US96-08730-15
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                                                                                                      27 SAVALIYS 34
                                                                                                                  1 SAVALTYS 8
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                                  SEQUENCE
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                 Sequence 4, Application US/08460617
Patent No. 5914114
GENERAL INFORMATION:
APPLICANT: Cassels, Frederick J
TITLE OF INVENTION: Method of Raising Antibodies Against E.
TITLE OF INVENTION: Coli
NUMBER OF SEQUENCES: 9
CORRESPONDENCE ADDRESS:
ADDRESSEE: Hendricks and Associates
STREET: 9669 A Main Street
CITY: Fairfax
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Length 37;
                                                                                                                                                                                                                                                                                                                                                           SOFTWARE: Patentin Release #1.0, Version #1.25 CURRENT APPLICATION DATA: APPLICATION NAMBER: US/08/460,617 FILING DATE: 02-JUN-1995 CLASSIFICATION: 424
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Score 48; DB 2; L
Pred. No. 1.83e+01;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    37 AA.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                          ATTORNEY/AGENT INFORMATION:
NAME: Hendricks, Glenna
REGISTRATION NUMBER: 32,535
REFERENCE/DOCKET NUMBER: cas460
TELECHMUNICATION INFORMATION:
TELEPHONE: 703-425-4250
TELEFAX: 703-425-2767
INFORMATION FOR SEQ.ID NO: 4:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      PRT;
                                                                                                                                                                                                                                                                                                                    MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Sequence 3, Application US/08460617
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ORGANISM: E coli
NCE 37 AA; 3714 MW; 7751 CN;
Sequence 4, Application US/08460617
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       FRAGMENT TYPE: N-terminal ORIGINAL SOURCE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        STANDARD;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       SEQUENCE CHARACTERISTICS:
LENGTH: 37 amino acids
                                                                                                                                                                                                                                             ZIP: 22031
COMPUTER READABLE FORM:
MEDIUM TYPE: Flore:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            SS: single
linear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  MOLECULE TYPE: peptide HYPOTHETICAL: NO
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Query Match 100.0%;
Best Local Similarity 100.0%;
Matches 8; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            TYPE: amino acid
STRANDEDNESS: si
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Sequence 2, Application US/08460617
Patent No. 5914114
GENERAL INFORMATION:
APPLICANT: Cassels, Frederick J
TITLE OF INVENTION: Method of Raising Antibodies Against
TITLE OF SEQUENCES:
NUMBER OF SEQUENCES:
OORRESPONDENCE ADDRESS:
ADDRESSEE: Hendricks and Associates
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           STATE.
COUNTRY: US
ZIP: 22031
COMPUTER READABLE FORM:
MEDIUM TYPE; Floppy disk
COMPUTER: Ploppy disk
COMPUTER: Dar PC COMPATIBLE
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/460,617
FILING DATE: 02-UNN-1995
TASSIFICATION: 424
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                                                                                                                  MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC COMPAtible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: PCT/US96/08730
FILING DATE: 03-JUN-1996
                                                                                                                                                                                                                      PILING DATE: 03-JUN-1>-CLASSIFICATION:
PILING DATE: 03-JUN-1>-CLASSIFICATION:
ATTORNEY/AGENT INFORMATION:
NAME: Hendricks, Glenna
REGISTRATION NUMBER: 32,535
REFERENCE/DOCKET NUMBER: PCT/US96/08730
TELEPRONE: (703) 591-4470
TELEPRONE: (703) 591-4470
TELEFAX: SAMING SAMI
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Score 44; DB 4; Le
Pred. No. 5.85e+01;
2; Mismatches 0
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           PRT;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ANTI-SENSE: NO
FRAGMENT TYPE: internal
IENCE 36 AA; 3629 MW; 7132 CN;
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75.08;
                                                                                                 COMPUTER READABLE FORM:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Query Match
Rest Local Similarity 75.0%,
6: Conservative
             Fairfax
                                                     USA
                                                       COUNTRY: U
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         27 ASVALTYS 34
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1 SAVALTYS 8
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             888888888888888888888888888888888888
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GENERAL INFORMATION:
APPLICANT: Cassels, Frederick
APPLICANT: Carter, John Mark
TITLE OF INVENTION: Methods of Raising Antibodies Against E.
TITLE OF INVENTION: Coli of the Family CSF-CFA./1
NUMBER OF SEQUENCES: 15
CORRESPONDENCE ADDRESS:
ADDRESSEE: Glenna Hendricks
Sequence 3, Application US/08460617
Patent No. 5914114
GENERAL INFORMATION:
APPLICANT: CASSELS, Frederick J
TITLE OF INVENTION: Method of Raising Antibodies Against E.
TITLE OF INVENTION: COLI
NUMBER OF SEQUENCES: 9
CORRESPONDENCE ADDRESS:
ADDRESSEE: Hendricks and Associates
STREET: 9669 A Main Street
CITY: Fairfax
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ö
                                                                                                                                                                                                                                                                                COUNTRY: US
21P: 22031
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION NUMBER: US/08/460,617
FILING DATE: U2-JUN-1995
CLASSIFICATION: 424
ATTORNEY/AGENT INFORMATION:
NAME: Hendricks, Glenna
REGISTRATION NUMBER: 32,535
REFERENCE/DOCKET NUMBER: a2,535
TELECOMMUNICATION INFORMATION:
TELECOMMUNICATION INFORMATION:
TELEFHONE: 703-425-4250
INFORMATION FOR SEQ ID NO: 3:
SEQUENCE CHARACTERISTICS:
LENGTH: 37 amino acids
TUTU CANADITERISTICS:
LENGTH: 37 amino acids
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Score 48; DB 2; Length 37;
Pred. No. 1.83e+01;
0; Mismatches 0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              36 AA.
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NCE 37 AA; 3732 MW; 7516 CN;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ADDRESSEE: Glenna Hendricks
STREET: P.O. Box 2509
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ANTI-SENSE: NO FRAGMENT TYPE: N-terminal ORIGINAL SOURCE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              STANDARD;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: peptide
HYPOTHETICAL: NO
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Query Match
Best Local Similarity 100.0%;
Matches 8; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         28 SAVALTYS 35
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Gaps

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Gaps

SEQUENCE

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Sequence 5, Application US/08460617
Patent No. 5914114
GENERAL INFORMATION:
APPLICANT: Cassels, Frederick J
TITLE OF INVENTION: Method of Raising Antibodies Against E.
TITLE OF INVENTION: Coli
NUMBER OF SEQUENCES:
ADDRESSEE: Hendricks and Associates
STREET: 9669 A Main Street
CITY: Fairfax
STREET: 9669 A Main Street
COUNTRY: US
COUNTRY: US
COMPUTER: IBM PC compatible
COMPUTER: Patentin Release #1.0, Version #1.25
SUBRENT APPLICATION NUMBER: US/08/460,617
FILING DATE: 02-UN-1995
CLASSIFICATION: 424
ATTORNEY/AGENT INFORMATION:
NAME: Hendricks, Glenna
REGISTATION NUMBER: 32,535
REFERENCE/DOCKET NUMBER: Cas460
TELECOMMUNICATION NUMBER: Cas460
TELECOMMUNICATION NUMBER: Cas460
TELECOMMUNICATION 1763-475-7675
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Query Match 89.6%; Score 43; DB 2; Length 37; Best Local Similarity 75.0%; 'Pred. No. 7.78e+01;
                                                                                                                                                                                                                              Score 43; DB 4; Length 37;
Pred. No. 7.78e+01;
2; Mismatches 0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              37 AA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 PRT;
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: unknown
MOLECULE TYPE: peptide
HYPOTHETICAL: NO
ANTI-SENES: NO
ANTI-SENES: NO
ANTI-SENES: NO
ANTI-SENES: NA
ROGENUE 37 AA; 3746 MW; 8426 CN;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ORGANISM: E COLI
NCE 37 AA; 3746 MW; 8426 CN;
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SEQUENCE CHARACTERISTICS:
LENGTH: 37 amino acids
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             FRAGMENT TYPE: N-terminal ORIGINAL SOURCE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: peptide
HYPOTHETICAL: NO
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    STANDARD;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TELEPHONE: 703-425-2767
                                                                                                                                                                                                                                       Query Match (89.6%;
Best Local Similarity 75.0%;
Matches 6; Conservative
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HYPOTHETICAL: NO
TONNE: NO
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AX AXXXXX
AX AXXXXX
DI XX Sequence 5, Appli DE Sequence 5, Appli DE Sequence 5, Appli CC GENERAL INFORMAC GENERAL INFORMACION FOL GENERAL SOU ORGANISM: 37 AAX AXXIVAL SOU GENERAL SOU SEQUENCE SOU GENERAL S
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                                                                                                                                                                                           SEQUENCE
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GENERAL INFORMATION:
APPLICANT: Cassels, Frederick
APPLICANT: Carter, John Mark
TITLE OF INVENTION: Methods of Raising Antibodies Against E.
TITLE OF INVENTION: Coli of the Family CSF-CFA./1
CORRESPONDENCES: 15
CORRESPONDENCES: 15
CORRESPONDENCE ADDRESS:
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COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
COMPUTER: O'-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: PCT/US96/08730
FILING DATE: 03-JUN-1996
CLASSIFICATION:
ATTORNEY/AGENT INFORMATION:
NAME: Hendricks, Glenna
NEGISTRATION NUMBER: 32, 335
REFERENCE/DOCKET NUMBER: PCT/US96/08730
TELECOMMUNICATION INFORMATION:
TELEPRAX: (703) 591-4470
TELEPRAX: (703) 591-4470
INFORMATION FOR SEQ ID NO: 4:
SEQUENCE CHARACTERISTICS:
LENGTH: 37 amino acids
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Score 44; DB 2; Length 36;
Pred. No. 5.85e+01;
2; Mismatches 0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             37 AA.
             ATTORNEY/AGENT INFORMATION:
NAME: Hendricks, Glenna
REGISTRATION NUMBER: 32,535
REFERENCE/DOCKET NUMBER: cas460
TELECOMMUNICATION INFORMATION:
TELEPHONE: 703-425-420
INFORMATION FOR SEQ ID NO: 2:
SEQUENCE CHARACTERISTICS:
LENGTH: 36 amino acids
TYPE: amino acids
STRANDEDNESS: single
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Sequence 4, Application PC/TUS9608730
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      NISM: E coli
36 AA; 3629 MW; 7132 CN;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ADDRESSEE: Glenna Hendricks
STREET: P.O. BOX 2509
CITY: Fairfax
                                                                                                                                                                                                                                                                                                                               TOPOLOGY: linear
MOLECULE TYPE: peptide
HYPOTHETICAL: NO
ANTI-SENSE: NO
FRACMENT TYPE: N-terminal
ORIGINAL SOURCE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   STANDARD;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Query Match
Best Local Similarity 75.0%;
Matches 6; Conservative
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COUNTRY: US
ZIP: 22031
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PCT-US96-08730-4
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| SAVALTYS 8
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Sequence 10, Application US/08483101
Patent No. 5932715
GENERAL INFORMATION:
APPLICANT: Scott, June R.
APPLICANT: Caron, Judy
APPLICANT: Caron, Judy
TITLE OF INVENTION: CS2 Proteins and Coding Sequences
NUMBER OF SEQUENCES: 17
CORRESPONDENCE ADDRESS:
ADDRESSEE: Greenlee and Winner, P.C.
STREET: 5370 Manhattan Circle, Suite 201
                                                                                                                                                                                                                                                                               COUNTRY: US
ZIP: 80303
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC COMPAtible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PATENTIN Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                PEPLICATION NUMBER: US/08/483,101
FILING DATE: 07-UNN-1995
CLASSIFICATION: 424
ATTORNEY/AGENT INFORMATION:
NAME: Ferber, Donna M.
REGISTATION NUMBER: 6-95
REFERENCE/DOCKET NUMBER: 6-95
TELECOMMUNICATION INFORMATION:
TELEPRINE: (303) 499-8080
IELERAX: (303) 499-8080
INFORMATION FOR SEQ ID NO: 10:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          HYPOTHETICAL: NO
SEQUENCE 171 AA; 17542 MW; 166366 CN;
                               Sequence 10, Application US/08483101
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     SEQUENCE CHARACTERISTICS:
LENGTH: 171 amino acids
TYPE: amino acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            STANDARD;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     MOLECULE TYPE: protein
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       y Match 89.6%;
Local Similarity 75.0%;
nes 6; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        unknown
                                                                                                                                                                                                                                                 CITY: Boulder STATE: Colorado
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       STRANDEDNESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         50 NSVALTYS 57
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 Gaps
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GENERAL INFORMATION:
APPLICANT: Cassels, Frederick
APPLICANT: Carter, John Mark
TITLE OF INVENTION: Methods of Raising Antibodies Against E.
TITLE OF INVENTION: Coli of the Family CSF-CFA./1
NUMBER OF SOUGHNES: 15
CORRESPONDENCE ADDRESS:
ADDRESSEE: Glenna Hendricks
STREET: P.O. Box 2509
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                              COUNTY: USA
ZIP: 22011
COMPUTER READBLE FORM:
MEDIUW TYPE: FLOPPY disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: PCT/US96/08730
FILING DATE: 03-JUN-1996
CLASSIFICATION:
 0; Indels
                                                                                                                                  148 AA.
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Pred. No. 7.78e+01;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ATTORNEY/AGENT INFORMATION:
NAME: Hendricks, Glenna
REGISTRATION NUMBER: 25,535
REFERENCE/DOCKET NUMBER: PCT/US96/08730
TELECOMMUNICATION INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            2; Mismatches
 Mismatches
                                                                                                                                  PRT;
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ENCE 148 AA; 15246 MW; 124952 CN;
                                                                                                                                                                                                                                  Sequence 10, Application PC/TUS9608730
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     TELEPHONE: (703) 591-4470
TELEFAX: (703) 591-4428
INFORMATION FOR SEQ ID NO: 10: SEQUENCE CHARACTERISTICS:
LENGTH: 148 amino acids
TYPE: amino acids
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                                                                                                                                  STANDARD;
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llarity 75.0%;
Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      MOLECULE TYPE: peptide HYPOTHETICAL: NO
6; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      STRANDEDNESS:
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Best Local Similarity
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ID US-08-483-101-10
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AC XXXXXX
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PCT-US96-08730-10
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                             27 NSVALTYS 34
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| SAVALTYS 8
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1 SAVALTYS 8
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Matches
                                                                                                                  RESULT
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Gaps GENERAL INFORMATION:
APPLICANT: Cassels, Frederick J
TITLE OF INVENTION: Method of Raising Antibodies Against E.
TITLE OF INVENTION: Coli
NUMBER OF SEQUENCES: 9
CORRESPONDENCE ADDRESS:
ADDRESSEE: Hendricks and Associates
STREET: 9669 A Main Street ô Score 43; DB 2; Length 171; Pred. No. 7.78e+01; 2; Mismatches 0; Indels 37 AA Sequence 6, Application US/08460617 Patent No. 5914114 Sequence 6, Application US/08460617

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Sequence 11, Application PC/TUS9608730
GENERAL INFORMATION:
APPLICANT: CASSES, Frederick
APPLICANT: Anderson, Jeffrey
APPLICANT: Carter, John Mark
TITLE OF INVENTION: Methods of Raising Antibodies Against E.
TITLE OF INVENTION: Coli of the Family CSF-CFA./1
NUMBER OF SEQUENCES: 15
CORRESPONDENCE ADDRESS:
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                                                                                                                                                                                                                                                                                                                                                       1; Indels
                                                                                                                                                                                                                                                                                                                        Score 42; DB 4; Length 37;
Pred. No. 1.03e+02;
1; Mismatches 1; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    COMPUTER: Floppy disk
COMPUTER: IBM PC Compatible
ODERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION DATA:
FILING DATE: 03-JUN-1996
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           FILING DATE: 03-JUN-1996
CLASSIFICATION:
ATTORNEZ/AGENT INFORMATION:
NAME: Hendricks, Glenna
REGISTRATION NUMBER: 32,535
REGISTRATION NUMBER: PCT/US96/08730
TELEPHONE: (703) 591-4470
TELEPHONE: (703) 591-4470
IELEPAX: (703) 591-4428
INFORMATION FOR SEQ ID NO: 11:
SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                            117 AA
              FILING DATE: 03-JUN-1996
CLASSIFICATION:
ATTORNEY/AGENT INFORMATION:
NAME: Hendricks, Glenna
REGISTRATION NUMBER: 32.535
REGISTRATION NUMBER: PCT/US96/08730
TELECOMMUNICATION INFORMATION:
TELEPRAN: (703) 591-4470
TELEPRAN: (703) 591-4428
INFOREMETER: (703) 591-4428
INFOREMETER: (703) 591-4428
INFOREMETION: SEQ ID NO: 5: SEQUENCE CHARACTERISTICS:
LENGTH: 37 maino acids
APPLICATION NUMBER: PCI/US96/08730 FILING DATE: 03-JUN-1996
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Sequence 11, Application PC/TUS9608730
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STREET: P.O. Box 2509
CITY: Fairfax
STATE: VA
                                                                                                                                                                                                                                                                                  NT TYPE: internal
37 AA; 3864 MW; 7776 CN;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                               STANDARD;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy
                                                                                                                                                                                                             single
                                                                                                                                                                                                                         TOPOLOGY: unknown
MOLECULE TYPE: peptide
HYPOTHETICAL: NO
                                                                                                                                                                                                                                                                                                                             Query Match 87.5%;
Best Local Similarity 75.0%;
Matches 6; Conservative
                                                                                                                                                                                              TYPE: amino acid
STRANDEDNESS: sin
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             USA
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                                                                                                                                                                                                                                                      HYPOTHETICAL: NAIT-SENSE: NO FRAGMENT TYPE:
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PCT-US96-08730-11
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                                                                                                                                                                                                                                                                                                      SEQUENCE
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GENERAL INFORMATION:
APPLICANT: Cassels, Frederick
APPLICANT: Caterion, Jeffrey
TITLE OF INVENTION: Cali of the Family CSF-CFA./1
NUMBER OF SEQUENCES: 15
CORRESPONDENCE ADDRESS:
ADDRESSE: Glenna Hendricks
STREET: P.O. Box 2509
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Query Match 87.5%; Score 42; DB 2; Length 37; Best Local Similarity 75.0%; Pred. No. 1.03e+02; Matches 6; Conservative 1; Mismatches 1; Indels
                                                                                COMPUTER KEALBLE FORM:

MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PATENTIN Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/460,617
FILING DATE: 02-JUN-1995
CLASSIFICATION: 424
ATTORNEY/AGENT INFORMATION:
NAME: Hendricks, Glenna
REGISSTRATION NUMBER: 32,535
REFERENCE/DOCKET NUMBER: 32,535
REFERENCE/DOCKET NUMBER: Cas460
TELECOMMUNICATION INFORMATION:
TELECOMMUNICATION INFORMATION:
TELECOMMUNICATION SEQ. ID NO: 6:
INFORMATION FOR SEQ. ID NO: 6:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                COUNTRY: USA
ZIP: 22031
COMPUTER READMBLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      37 AA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      PRT;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ORGANISM: E COL1
ICE 37 AA; 3864 MW; 7776 CN;
                                                                                                                                                                                                                                                                                                                                                                                                                             ANTI-SENSE: NO FRAGMENT TYPE: N-terminal ORIGINAL SOURCE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        STANDARD;
                                                                                                                                                                                                                                                                                                                              SEQUENCE CHARACTERISTICS:
LENGTH: 37 amino acids
                                                                                                                                                                                                                                                                                                                                                                                 TOPOLOGY: linear
MOLECULE TYPE: peptide
HYPOTHETICAL: NO
                                                                                                                                                                                                                                                                                                                                                                          single
                                                                      COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy
                                                                                                                                                                                                                                                                                                                                                            TYPE: amino acid
STRANDEDNESS: sin
                                             RY: US
22031
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       STATE: VA
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PCT-US96-08730-5
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1 SAVALTYS 8
                                               COUNTRY:
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Gaps

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Indels

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2; Mismatches

5; Conservative

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                                                                                                                                                                                                                                                                                                                             Sequence 6, Application PC/TUS9608730
GENERAL INFORMATION:
APPLICANT: Cassels, Frederick
APPLICANT: Anderson, Jeffrey
APPLICANT: Carter, John Mark
TITLE OF INVENTION: Methods of Raising Antibodies Against E.
TITLE OF INVENTION: Coli of the Family CSF-CFA./1
NUMBER OF SEQUENCES: 15
CORRESPONDENCE ADDRESS:
STORES: Glenna Hendricks
STREET: P.O. Box 2509
CITT: Falifax
                                                                                                                                             Gaps
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    COMPUTER REABABLE FORM:
MEDIUW TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATIOS SYSTEM: PC-DOS/MS-DOS
SOCTWARE: PATENTIN Release #1.0, Version #1.25
CURRENT APPLICATION NUMBER: PCT/US96/08730
FILING DATE: 03-JUN-1996
CLASSIFICATION:
NAME: Hendlicks, denna
REGISTRATION NUMBER: 32.535
REFERENCE/DOCKET NUMBER: PCT/US96/08730
TELECOMMUNICATION NUMBER: 32.535
REFERENCE/DOCKET NUMBER: 92.535
REFERENCE/DOCKET NUMBER: 92.535
REFERENCE/OMUNICATION INFORMATION:
TELEPAM: (703) 591-4470
TELEPAM: (703) 591-4428
INPORMATION PON: 6:
SEQUENCE CHARACTERISTICS:
LENGTH: 36 anino acids
                                                                                                                  Score 42; DB 4; Length 117; Pred. No. 1.03e+02; 1; Mismatches 1; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Query Match 83.3%; Score 40; DB 4; Length 36; Best Local Similarity 71.4%; Pred. No. 1.81e+02;
                                                                                                                                                                                                                                        36 AA.
        TYPE: amino acid
STRANDEDNESS: single
STRANDEDNESS: single
TOPOLGGY: unknown
MOLECULE TYPE: peptide
HYPOTHETICAL: NO
RANTI-SENSE: NO
FRAGMENT TYPE: internal
COURNE 117 AA; 12389 MW; 76297 CN;
                                                                                                                                                                                                                                        PRT;
                                                                                                                                                                                                                                                                                                             Sequence 6, Application PC/TUS9608730
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 FRAGMENT TYPE: internal ENCE 36 AA; 3801 MW; 7306 CN;
117 amino acids
                                                                                                                                                                                                                                        STANDARD;
                                                                                                                   87.5%;
75.0%;
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STRANDEDNESS: single
TOPOLOGY: unknown
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               MOLECULE TYPE: peptide HYPOTHETICAL: NO
                                                                                                                                           6; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           USA
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                                                                                                                               Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           HYPOTHETICAL:
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PCT-US96-08730-6
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                                                                                             SEQUENCE
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Gaps
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Patent No. 5914114
GENERAL INFORMATION:
APPLICANT: Cassels, Frederick J
TITLE OF INVENTION: Coli
NUMBER OF SEQUENCES: 9
CORRESPONDENCE ADDRESS:
ADDRESSEE: Hendricks and Associates
STREET: 9669 A Main Street
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                         COUNTRY: VA

COUNTRY: US

ZIP: 22031

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patentin Release #1.0, Version #1.25

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/460,617

FILING DATE: 02-JUN-1995

CLASSIFICATION NUMBER: 32,535

REFRENCE/COCKET NUMBER: 32,535

REFRENCE/COCKET NUMBER: 32,535

REFRENCE/COCKET NUMBER: 32,535

TELEPHONICATION INFORMATION:

TELEPHONE: 703-425-425

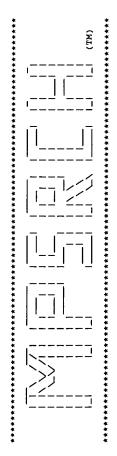
INFORMATION FOR SEQ ID NO: 7:

SEQUENCE CHRRACTERISTICS:

LENGTH: 36 amino acids

STRANDERSS.
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                                                                                                             36 AA.
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Pred. No. 1.81e+02;
2; Mismatches 0
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FRAGMENT TYPE: N-terminal
ORIGINAL SUCCE:
ORGANISM: E Coll
JENCE 36 AA; 3817 MW; 7238 CN;
                                                                                                                                                                                                                        Sequence 7, Application US/08460617
                                                                                                             STANDARD;
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ilarity 71.4%;
Conservative
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TOPOLOGY: linear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        MOLECULE TYPE: peptide HYPOTHETICAL: NO
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US-08-460-617-7
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28 SIALTYS 34
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2 AVALTYS 8
                      2 AVALTYS 3
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nis Page Blank (uspto)



Release 3.1A John F. Collins, Biocomputing Research Unit. Copyright (c) 1993-1998 University of Edinburgh, U.K. Distribution rights by Oxford Molecular Ltd

MPsrch_pp protein - protein database search, using Smith-Waterman algorithm Fri Jun 16 15:50:36 2000; MasPar time 4.83 Seconds 78.084 Million cell updates/sec : uo u

rabular output not generated.

>US-08-905-046-2 (1-8) from US08905046.pep 48 1 SAVALTYS 8 Title: Description: Perfect Score: Sequence:

PAM 150 Gap 15 Scoring table:

142080 segs, 47172406 residues , Searched:

Post-processing: Minimum Match 0% Listing first 45 summaries

Database:

pir62 1:pir1 2:pir2 3:pir3 4:pir4

Mean 21.426; Variance 21.680; scale 0.988 Statistics:

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

		фP			SOFTWARES		
esult No.	Score	Query Match	Length	DB	£	Description	Pred. No.
-	43	89.6	171	7	A41467	fimbrial protein csoA	1.57e+01
7	42	87.5	544	~	S76859	hypothetical protein	2.68e+01
ю	42	87.5	699	ч	574436	~	2.68e+01
4	41	85.4	183	~	A64009	al prote	4.52e+01
Ŋ	41	85.4		~	B70045		4.52e+01
φ	41	85.4		N	G75035	iron (111) abc transp	4.52e+01
7	41	85.4	549	~	G69618	dipeptide ABC transpo	4.52e+01
σ	41	85.4	739	~	H72364	aspartokinase II - Th	4.52e+01
σ	40	83.3	81	~	S01410	hypothetical protein	7.54e+01
10	40	83.3	202	~	D70752	probable lprE protein	7.54e+01
11	40	83.3	229	~	S01505	H+-transporting ATP s	7.54e+01
12	40	83.3	343	~	JH0442	allantoicase (EC 3.5.	7.54e+01
13	40	83.3	370	7	A71214	probable H(+)-transpo	7.54e+01
14	40	83.3	375	7	I38879	corticotropin releasi	7.54e+01
15	40	83.3	412	N	A72473	probable Na+/H+ antip	7.54e+01
16	40	83.3	415	N	S39535	corticotropin-releasi	7.54e+01
17	40	83.3	415	~	158144	corticotropin-releasi	7.54e+01
18	40	83.3	444	~	A48260	corticoliberin recept	7.54e+01
19	40	83.3	479	~	T15427	hypothetical protein	7.54e+01
20	40	83.3	701	~	156208	heat shock protein 70	7.54e+01
21	40	83.3	889	7	T11742	egg sperm receptor -	7.54e+01
22	40	83.3	1827	-	одно	sucrose alpha-glucosi	7.54e+01
23	39	81.3	127	7	PC2267	cytochrome P450 prote	1.24e+02

RESULT

81.3 169 2 E71 81.3 173 2 T06 81.3 225 2 T06 81.3 225 2 T06 81.3 237 2 S73 81.3 239 2 S73 81.3 239 2 S73 81.3 284 2 E72 81.3 330 1 B66 81.3 330 1 B68 81.3 360 1 S74 81 81.3 360	crossover junction en 1.24e+02 hypothetical protein 1.24e+02 hypothetical protein 1.24e+02 probable lipoprotein 1.24e+02 sensory rhodopsin 1 - 1.24e+02 probable lipoprotein 1.24e+02 probable prox protein 1.24e+02 probable prox protein 1.24e+02 probable 4-hydroxyben 1.24e+02 ketol-acid reductoiso 1.24e+02 ketol-acid reductoiso 1.24e+02 ketol-acid reductoiso 1.24e+02 E2 protein - human pa 1.24e+02 Farchycrytosine-spec 1.24e+02 S-methycrytosine-spec 1.24e+02 S-methycrytosine-spec 1.24e+02 B-cell antigen CD19 pt 1.24e+02 hype II secretion pat 1.24e+02 kype II secretion pat 1.24e+02 kypethetical protein 1.24e+02 kypethetical protein 1.24e+02 kypethetical protein 1.24e+02	te Escherichia coll plasmid pEU405 a coll evision 30-Jun-1992 #text_change ey, J.S.; Scott, J.R. 8:3594-3600 subunit of CS1 pill of human richia coll. 158550; NID:g145573; PIDN:AAA23596.1; let, A.H.M.; Willshaw, G.A.; van der 1991) 80:265-270 wo genes of the CS1 fimbrial operon in Escherichia coll of serotype D:g41169; PIDN:CAA44673.1; PID:g41171	ial protein -weight 17542 #checksum 5407 3: DB 2; Length 171; 0. 1.57e+01; smatches 0; Gaps 0;
ES	E71721 T09868 T06205 T03728 S73728 S73728 S72865 A71945 B64561 S72865 A71945 B64561 T00211 T00212 S748753 S7885 B7197 B7107 T00212 S7885 S	ALIGNMENTS The complete In csoA - Es Sor subunit In Swartley, (1990) 58:3 In Sor subunit In So	FFAl fimbrial E fmolecular-wei i Score 43. r Pred. No. 1. 2; Mismatc
ES	1.3 169 1.3 225 1.3 225 1.3 225 1.3 235 1.3 284 1.3 330 1.3 360 1.3 36	#th. #th. #th. #th. #th. #th. #th. #th.	ssoA lasmid feuperfamily flength 171 arity 75.08 Conservative
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| SAVALTYS 8
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1 SAVALTY 7
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                                       CLASSIFICATION
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REFERENCE
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DATE
                                                                                                                                                              Matches
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DATE
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                                                        KEYWORDS
GENETICS
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##residues
##cross-references EMBL:D90917; GB:AB001339; NID:91653836; PID:d1019504;
##cross-references PID:91653861
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##cresidues 1-669 ##label KAN
##cross-references EMBL:D90899; GB:AB001339; NID:g1651650;
##cross-references EMBL:D90899; DPI:g1651660
##note the nuclectide sequence was submitted to the EMBL Data
#hote Library, June 1996
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DNA Res. (1996) 3:109-136
Sequence analysis of the genome of the unicellular determination of the entire genome and assignment of potential protein-coding regions.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            nucleic acid sequence not shown; translation not shown
             S76859 #type complete
hypothetical protein sll1550 - Synechocystis sp. (strain PCC
                                                                                                                                                                               #authors Kaneko, T.; Sato, S.; Kotani, H.; Tanaka, A.; Asamizu, E.; Nakamura, Y.; Miyajima, N.; Hirosawa, M.; Sugiura, M.; Sasamcto, S.; Kimura, T.; Hosouchi, T.; Matsuno, A.; Sasamcto, S.; Kimura, T.; Hosouchi, T.; Watsunat, A.; Nakazaki, N.; Naruo, K.; Okumura, S.; Shimpo, S.; Takeuchi, C.; Wada, T.; Watanabe, A.; Yamada, M.; Tabata, S. Yasuda, M.; Tabata, S. Yanaba, M.; Tabata, S. Yanaba, M.; Tabata, S. Yanaba, S.; Shimpo, Saguence analysis of the genome of the unicellular cyanopacterium Synechocystis sp. PCC6603. II. Sequence determination of the entire genome and assignment of potential protein-coding regions.
                                                                                                                                                                                                                                                                                                                                                                                                                                ##status nucleic acid sequence not shown; translation not shown ##molecule_type DNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          the nucleotide sequence was submitted to the EMBL Data Library, June 1996
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         S74436 #type complete
DNA ligase (NAD+) (EC 6.5.1.2) - Synechocystis sp. (strain
PCC 6803)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              #formal_name Synechocystis sp.
PCC 6803
25-Apr-1997 #sequence_revision 25-Apr-1997 #text_change
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Gaps
                                                                                                        25-Apr-1997 #sequence_revision 25-Apr-1997 #text_change
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#length 544 #molecular-weight 58631 #checksum 9527
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Pred. No. 2.68e+01;
1; Mismatches 0; Indels
                                                                   #formal_name Synechocystis sp.
PCC 6803
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      protein sli1209
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Best Local Similarity 85.7%;
Matches 6; Conservative
                                                                                                                                21-Aug-1998
S76859
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#start_codon
SUMMARY
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#title
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#authors Fleischmann, R.D.; Adams, M.D.; White, O.; Clayton, R.A.;
#authors Fleischmann, R.D.; Adams, A.R.; Bult, C.J.; Tomb, J.F.;
Kirkness, E.F.; Kerlavage, A.R.; Bult, C.J.; Tomb, J.F.;
Dougherty, B.A.; Merrick, J.M.; McKenney, K.; Sutton, G.;
PitzHugh, M.; Fleids, C.; Gocayne, J.D.; Scott, J. Shiton, G.;
Shirley, R.; Liu, L.I.; Glodek, A.; Kelley, J.M.; Weldman, J.F.; Phillips, C.A.; Sprigs, T.; Hedblom, E.; Cotton, D.M.; Brandon, R.C.; Fine, L.D.; Fritchman, J.L.; Saudek, D.M.; Brandon, R.C.; Fine, L.D.; Fritchman, J.L.; Fuhrmann, J.L.; Geoghagen, N.S.M.; Gnehm, C.L.; McDonald, L.A.; Small, K.V.; Fraser, C.M.; Smith, H.O.; Venter, J.C.
#title Whole-genome random sequencing and assembly of Haemophilus influenzae Rd.
#cross_references WID:95350630
#accession A64009
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                                                                                                                                                                                                                                                                                                                                                                                                                 hypothetical protein H10507 - Haemophilus influenzae (strain Rd KW20)
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18-Aug-1995 #sequence_revision 18-Aug-1995 #text_change
29-Sep-1999
A64009
                                                                                                                                                                           Gaps
*superfamily polydeoxyribonucleotide synthase (NAD+) ligase; NAD #length 669 #molecular-weight 74602 *checksum 9660
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Pred. No. 4.52e+01;
3; Mismatches 0; Indels
                                                                                                                         Score 42; DB 1; Length 669;
                                                                                                                                             Pred. No. 2.68e+01;
1; Mismatches 0;
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Best Local Similarity 62.5%;
                                                                                                                         87.5%;
Similarity 85.7%;
6; Conservative
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##residues 1-18
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Kunst, F.; Ogasawara, N.; Moszer, I.; Albertini, A.m.;
Alloni, G.; Azevedo, V.; Berteso, M.G.; Bessless, F.;
Bolotin, G.; Borchett, S.; Boriss, R.; Boursier, L.; Brans,
Alloni, G.; Borchett, S.; Boriss, R.; Boursier, S.;
Bruschi, C.V.; Cardawell, S.C.; Bron, S.; Brouillet, S.;
Bruschi, C.V.; Cardawell, B.; Captuano, V.; Carter, N.M.;
Choi, S.K.; Codani, J.J.; Connerton, I.F.; Cummings, N.J.;
Ehrlich, S.D.; Emmerson, P.T.; Entian, N.; Ghim,
S.Y.; Glaser, P.; Goffeun, A.; Galleron, N.; Ghim,
S.Y.; Glaser, P.; Goffeun, A.; Galleron, N.; Ghim,
S.Y.; Glaser, P.; Goffeun, A.; Galleron, N.; Ghim,
S.Y.; Glaser, P.; Goffeun, A.; Halech, J.; Hardood,
C.R.; Henaut, A.; Hilbert, H.; Holsappel, S.; Kumano, N.;
Kunita, X.; Klaerr-Blanchard, M.; Klein, C.; Kobayashi,
Y.; Koetter, P.; Koningstein, G.; Krogh, S.; Kumano, M.;
Kurita, K.; Lapidus, A.; Lardinods, S.; Kumano, M.;
Kurita, K.; Lapidus, A.; Lardinods, S.; Kumano, M.;
Kurita, K.; Lapidus, A.; Lardinods, S.; Kumano, M.;
Moestl, D.; Nakai, S.; Noback, M.; Noone, D.; O'F Seilly,
M.; Ogawa, K.; Ogiwara, A.; Luu, H.; Maxida, S.;
Kawabara, K.; Ogiwara, A.; Luu, H.; Maxida, S.;
Koche, B.; Rose, M.; Sadaie, Y.; Sato, T.; Scanlon, E.;
Schleid, S.; Schroeter, R.; Scoffone, F.; Sekquchi, J.;
Taxemaru, K.; Takeuchi, M.; Takapshi, H.;
Taxemaru, K.; Takeuchi, M.; Takapshi, A.; Takabashi, H.;
Taxesta, K.; Satori, A.; Yasumoto,
B.; Sorokin, A.; Tacconi, E.; Takagi, T.; Takabashi, H.;
Taxesta, K.; Yoshida, K.; Yoshikawa, H.F.; Zumstein, E.;
Wunters, P.; Wipter, A.; Yasumoto, K.; Yata, K.; Yoshikawa, H.F.; Zumstein, E.;
Wohlers, P.; Wipter, A.; Yasumoto, M.; Waller, A.; Yasumoto, M.; Waller, A.; Yasumoto, A.; Yasumo
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##cross-references GB:Z99110; GB:AL009126; NID:g2633472;
PIDN:CAB13153.1; PID:e1183316; PID:g2633650
##experimental_source strain 168
S16646
Ithors Mathlopoulos, C.; Mueller, J.P.; Slack, F.J.; Murphy, C.G.; patankar, S.; Bukusoglu, G.; Sonenshein, A.L.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                #title The complete genome sequence of the Gram-positive bacterium Bacillus subtilis. #tross-references MUID:98044033
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05-Dec-1997 #sequence_revision 05-Dec-1997 #text_change
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       transporter (dipeptide-binding protein)
                #length 331 #molecular-weight 35486 #checksum 3225
                                                                                        Score 41; DB 2; Length 331;
Pred. No. 4.52e+01;
3; Mismatches 0; Indels
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                                                                                            85.4%;
imilarity 62.5%;
5; Conservative
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##residues 1-54
                                                                                        Query Match
Best Local Similarity
Matches 5; Conser
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1 SAVALTYS 8
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                        SUMMARY
                                                                                                                                                                                                                                                                                                                                                                                                                                          RESULT
ENTRY
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       TITLE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       DATE
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M.; Fujita, Y.; Fuma, S.; Galizzi, A.; Galleron, N.; Ghim, S.Y.; Glaser, P.; Goffeau, A.; Golightly, E.J.; Grandi, G.; Guiseppl, G.; Guy, B.J.; Haga, K.; Halech, J.; Harwood, C.R.; Henaut, A.; Hilbert, H.; Holsappel, S.; Hosono, S.; Hullo, M.F.; Itaya, M.; Jones, L.; Joris, B.; Karamata, D.; Kasahara, Y.; Klaerr Blanchard, M.; Klelh, C.; Kobayashi, Y.; Koetter, P.; Koningstein, G.; Krogh, S.; Kumano, M.; Kurita, K.; Lapidus, A.; Lardinois, S.; Lauber, J.; Maueel, C.; Medique, C.; Medino, S.; Liu, H.; Masuda, S.; Maueel, C.; Medique, C.; Medino, N.; Mellado, R.P.; Mizuno, M.; Moestl, D.; Nakai, S.; Noback, M.; Noone, D.; O'Reilly, M.; Meyondo, C.; Medino, N.; Pohl, T.M.; Portetelle, D.; Porwolik, S.; Prescott, A.M.; Presecan, E.; Pujic, P.; Purnelle, B.; Rapport, G.; Roche, B.; Rose, M.; Sadie, Y.; Sato, T.; Scanlon, E.; Schleich, S.; Schroeter, R.; Scoffone, F.; Sekiguchi, J.; Scence, S.; Serror, P.; Shin, B.S.; Soldo, B.; Sorokin, A.; Tarakai, T.; Takahashi, H.; Tarakanta, P.; Tarakai, T.; 
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- Pyrococcus abyssi (strain Orsay)
#formal_name Pyrococcus abyssi
20.Aug-1999 #sequence_revision 20-Aug-1999 #text_change
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Vandenbol, M.; Vannier, F.; Vassarotti, A.; Viari, A.; Wambutt, R.; Wedler, E.; Wedler, H.; Weitzenegger, T.; Wambutt, P.; Wipat, A.; Yamamoto, H.; Yamane, K.; Yasumoto, K.; Yata, K.; Yoshida, K.; Yoshidawa, H.F.; Zumstein, E.; Yoshikawa, H.F.; Zumstein, E.;
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Nature (1997) 390:249-256
The complete genome sequence of the Gram-positive bacterium Bacillus subtilis.
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submitted to the EMBL Data Library, July 1999
Pyrococcus abyssi genome sequence: insights into archaeal
chromosome structure and evolution.
G75035
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#length 250 #molecular-weight 27511 #checksum 864
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. 4.52e+01;
. ~ ~ 0; Indels
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Pred. No.
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##molecule_type DNA
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Best Local Similarity 62.5%;
Matches 5; Conservative
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1 SAVALTYS 8
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#accession

GENETICS #gene

SUMMARY

#journal

#title

*submission

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ACCESSIONS

ORGANISM

RESULT ENTRY REFERENCE

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GENETICS

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169 TVALIYA 175
                                                                                                                                                                                                                                                                                           34 AGVPLTYS 41
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1 SAVALTYS 8
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#authors A72200
#authors R.J.; Hackey, E.K.; Gwinn, M.L.; Dodson, R.J.; Hackey, E.K.; Feterson, J.D.; Nelson, W.C.; Ketchum, K.A.; McDonald, L.; Utterback, T.R.; Malek, W.C.; Ketchum, K.A.; McDonald, L.; Utterback, T.R.; Malek, J.A.; Linher, K.D.; Garrett, M.M.; Stewart, A.M.; Cotton, M.D.; Pratt, M.S.; Phillipps, C.A.; Richardson, D.; Heidelberg, J.; Sutton, G.G.; Fleischmann, R.D.; White, O.; Salzberg, S.L.; Smith, H.O.; Venter, J.C.; Fraser, C.M.
#journal Nature (1999) 399:323-329
#title Bacteria from genome sequence of Thermotoga maritima.
#cross-references MJID:99287316
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ##residues
##cross-references GB:AE001729; GB:AE000512; NID:g4981049; PID:g4981061;
##cross-references TIGR:TM0547
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  Josesson John Article Type DNA ##molecule type DNA ##molecule type DNA ##residues 7-271, K',273-344,'P',346-549 ##label MAT ##residues 7-271, K',273-344,'P',346-549 ##label MAT ##residue BMBL:X56678; NID:948802 ##coross references EMBL:X56678; NID:948802 ##note authors translated the codon GTG for residue 10 as ##note B, AAA for residue 37 as Leu, ACA for residue 111 as B, AAA for residue 179 as Arg, CTT for residue 180 as Thr, GAA for residue 181 as Leu, GTT for residue 182 as Glu, and ACA for residue 183 as Val
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hypothetical protein 1 - fission yeast (Schizosaccharomyces
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31-Dec-1990 #sequence_revision 31-Dec-1990 #text_change
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#superfamily dipeptide transport protein
#Enngth 549 #molecular-weight 62579 #checksum 8404
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Nucleic Acids Res. (1988) 16:8603-8617
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Pred. No. 4.52e+01;
3; Mismatches 0; Indels
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Pred. No. 4.52e+01;
3; Mismatches 0; Indels
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5; Conservative
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Similarity 62.5%;
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Cole, S.T.; Brosch, R.; Parkhill, J.; Garnier, T.; Churcher, C.; Harris, D.; Gordon, S.V.; Eiglmeier, K.; Gas, S.; Barry, III, C.E.; Tekaia, F.; Badcock, K.; Basham, D.; Brown, D.; Chillingworth, T.; Connor, R.; Davies, R.; Deviln, R.; Feltwell, T.; Gentles, S.; Hamin, N.; Holroyd, S.; Hornsby, T.; Jagels, K.; Krogh, A.; McLean, J.; Moule, S.; Murphy, L.; Oliver, S.; Osborne, J.; Quail, M.A.; Rajandream, M.A.; Rogers, J.; Rutter, S.; Seeger, K.; Skelton, S.; Squares, S.; Sqares, R.; Sulston, J.E.; Skelton, S.; Squares, S.; Barrell, B.G.

Nature (1998) 393:57-544

Deciphering the biology of Mycobacterium tuberculosis from the complete genome sequence.
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H+-transporting ATP synthase (EC 3.6.1.34) protein 6 - sea
urchin (strongylocentrotus purpuratus) mitochondrion (SGC8)
#formal_name mitochondrion Strongylocentrotus purpuratus
#common_name purple urchin
01-bec-1989 #sequence_revision 01-bec-1989 #text_change
01-Nov-1996
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#title Construction of an expression vector for the fission yeast Schizosaccharomyces pombe. #cross-references WUID:88335610
                                                                                                                                                                                    ##cross-references EMBL:X07027; NID:94896; PID:94897
##note the authors translated the codon CAG for residue 2 as
Glu and GGT for residues 32 and 33 as Val
#length 81 #molecular-weight 8908 #checksum 1917
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    probable lprE protein - Mycobacterium tuberculosis (strain
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17-Jul-1998 #sequence_revision 17-Jul-1998 #text_change
17-Jul-1998
D70752
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Pred. No. 7.54e+01;
2; Mismatches 0; Indels
                                                                                                                                                                                                                                                                                                                             Score 40; DB 2; Length 81;
Pred. No. 7.54e+01;
3; Mismatches 0; Indels
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##residues 1-81 ##label KUD
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PID:g1480334
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Best Local Similarity 71.4%;
Matches 5; Conservative
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Best Local Similarity 62.5%;
Matches 5; Conservative
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##residues 1-20
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TITLE ENTRY

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##residues 1-370 ##label KAW
##cross-references GB.AP000007; NID:g3236134; PID:d1032047; PID:g3258421
#experimental_source strain OT3
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probable Na+/H+ antiporter APE2426 - Aeropyrum pernix (strain
                                                                                                Rawarabayasi, Y.; Sawada, M.; Horikawa, H.; Haikawa, Y.;
Hino, Y.; Yamamoto, S.; Sekine, M.; Baba, S.; Kosugi, H.;
Hosoyama, A.; Nagai, Y.; Sakai, M.; Oqura, K.; Otsuka, R.;
Nakazawa, H.; Takamiya, M.; Ohfuku, Y.; Funahashi, T.;
Tanaka, T.; Kudoh, Y.; Yamazaki, J.; Kushida, N.; Oquchi,
A.; Aoki, K.; Yoshizawa, T.; Nakamura, Y.; Robb, F.T.;
Horikoshi, K.; Masuchi, Y.; Shizuya, H.; Kikuchi, H.
DNA Res. (1998) 5:55-76
Complete sequence and gene organization of the genome of a
hyper-thermophilic archaebacterium, Pyrococcus horikoshil
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Blochem. Blophys. Res. Commun. (1994) 205:1836-1842
A variant of the human corticotropin-releasing factor (CRF) receptor: cloning, expression and pharmacology.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     corticotropin releasing hormone receptor variant - human #formal_name Homo sapiens #common_name man #sequence_revision 29-May-1998 #text_change 138879
Pyrococcus horikoshii
#formal_name Pyrococcus horikoshii
14-Aug-1998 #sequence_revision 14-Aug-1998 #text_change
26-Aug-1999
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           this accession replaces an interim accession for
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 PH1977
#superfamily H+ transporting ATP synthase C subunit
#length 370 #molecular-weight 42602 #checksum 7092
                                                                                                                                                                                                                                                                                                                                                                      preliminary; nucleic acid sequence not shown; translation not shown
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##nolecule_type mRNA
##restance
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Pred. No. 7.54e+01;
2; Mismatches 1; Indels
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Pred. No. 7.54e+01;
0; Mismatches 0; Indels
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Best Local Similarity 100.0%;
Matches 6; Conservative
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Best Local Similarity 62.5%;
Matches 5; Conservative
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allantoicase (EC 3.5.3.4) - yeast (Saccharomyces cerevisiae)
protein YIR029w
#formal_name Saccharomyces cerevisiae
31-Mar-1992 #sequence_revision 31-Mar-1992 #text_change
06-Feb-1998
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##cross-references GB:Z47047; EMBL:Z38061; NID:g603997; PID:g763374;
##STOSS-references GB:Z47047; EMBL:Z38061; NID:g603997; PID:g763374;
                      #authors Jacobs, H.T.; Elliott, D.J.; Math, V.B.; Farquharson, A. #journal J. Mol. 18101. (1988) 202:185-217
#title Nuclectide sequence and gene organization of sea urchin mitochondrial DNA.
#cross-references MUD:89011951
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ATP biosynthesis; hydrolase; mitochondrion
#length 229 #molecular-weight 25556 #checksum 7750
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probable H(+)-transporting ATP synthase subunit C
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                                                                                                                                                                                                                                                                                                                                                                                          1; Indels
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Pred. No. 7.54e+01;
1; Mismatches 1;
                                                                                                                                                                                                                                                                                                                                                  Score 40; DB 2; Le
Pred. No. 7.54e+01;
2; Mismatches 1;
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##cross-references SGD:S0001468; MIPS:YIR029w
                                                                                                                                                         ##residues 1-229 ##label ##cross-references EMBL:X12631
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        83.3%;
larity 75.0%;
Conservative
                                                                                                                                                                                                                                                                                                                                                  Query Match 83.3%;
Best Local Similarity 62.5%;
Matches 5; Conservative
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                                                                                                                                                                                                                 mitochondrion
SGC8
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Rowley, K.
                                                                                                                                ##molecule_type DNA
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      S01499
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| SAVALTYS 8
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1 SAVALTYS
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#start_codon A
CLASSIFICATION #
KEYWORDS
SUMMARY #
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6
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GENETICS #gene

RESULT ENTRY

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Gaps

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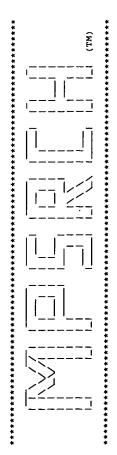
Gaps

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20-Aug-1999 #sequence_revision 20-Aug-1999 #text_change
20-Aug-1999 #sequence_revision Argana
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Release 3.1A John F. Collins, Biocomputing Research Unit. Copyright (c) 1993-1998 University of Edinburgh, U.K. Distribution rights by Oxford Molecular Ltd

protein - protein database search, using Smith-Waterman algorithm MasPar time 3.26 Seconds 74.780 Million cell updates/sec Fri Jun 16 15:49:40 2000; : uo uı

Tabular output not generated.

MPsrch_pp

>US-08-905-046-2 (1-8) from US08905046.pep 48 Title:

Description: Perfect Score: Sequence:

1 SAVALTYS 8 PAM 150 Gap 15 Scoring table:

83857 segs, 30454973 residues Searched:

Minimum Match 0% Listing first 45 summaries Post-processing:

Database:

swiss-prot38 1:swissprot

Variance 19.705; scale 1.106 Mean 21.794; Statistics:

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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Pred. No.	5. 48e+00 1. 74e+01 1. 74e+01 1. 74e+01 3. 03e+01 3. 03e+01	5.23e+01
Description	CS1 FIMBRIAL SUBUNIT A CORTICOTROPIN RELEASIN HYPOTHETICAL PROTEIN I DIPEPTIDE BINDING PROT PUTATIVE LIPOPROTEIN L ALLANTOICASE (EC 3.5.3 CORTICOTROPIN RELEASIN CORTICOTROPIN RELEATED J KD HEAT SHOCK PROTE SUCRASE-ISOMALTARES. IN CROSSOVER JUNCTION END NADH-HEROITHONE OXIDOR NADH-HEROITHONE OXIDOR	SENSORY RHODOPSIN I (S
ID	FWS1_ECOLI CRFR_SHEEP YOHA_HAEIN DPPE_BACSU ILPRE_MYCTU ALC_YEAST CRFR_MOUSE CRFR_MOUSE CRFR_CHICK	BACS_HALHA
DB		1 -1
Length	171 1813 1813 1813 2202 2202 2202 2203 4415 4115 4115 4115 4115 4116 8116 8116 8116 8116 8116 8116 8116	239
% Query Match	9	81.3
Score	4444444444444444AAAAAAAAAAAAAAAAAAAAAA	36
esult No.	100840000000000000000000000000000000000	23

5.23e+01 5.23e+01	5.23e+01 5.23e+01		5.23e+01 5.23e+01	5.23e+01 5.23e+01		5.23e+01	8.91e+01										
KETOL-ACID REDUCTOISOM FERREDOXINNADP REDUC	FERREDOXINNADP REDUC REGULATORY PROTEIN E2.	CARBAMOYL-PHOSPHATE SY	S-METHYLCYTOSINE-SPECI FIBER PROTEIN 1.	B-LYMPHOCYTE ANTIGEN C	PERIODIC TRYPTOPHAN PR	TRANSCRIPTION-REPAIR C	CFA/I FIMBRIAL SUBUNIT	HYPOTHETICAL 21.2 KD P	HYPOTHETICAL 30.3 KD P	MINOR FIMBRIAL SUBUNIT	HEMAGGLUTININ-NEURAMIN	HEMAGGLUTININ-NEURAMIN	HYPOTHETICAL 67.7 KD P	HEMAGGLUTININ-NEURAMIN	HYPOTHETICAL 86.9 KD P	HEAT-SHOCK PROTEIN 105	HEAT-SHOCK PROTEIN 105
ILVC_HELPY FENR_PEA	FENR_VICFA	CARA_TRIVE	MCRB_ECOLI FIB1_ADE40	CD19_HUMAN	PWP2_HUMAN	MFD_SYNY3	FMC1_ECOLI	YCB7_PSEDE	YC23_ANTSP	HFE2_HAEIN	HEMA_NDVA	HEMA_NDVM	YM63_YEAST	HEMA_NDVQ	YLA4_CAEEL	H105_CRIGR	H105_HUMAN
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330	363	453	459 547	556	919	1199	170	197	277	437	570	571		919			828
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0 0 0 0	თ თ ო ო	33	30	6 6 6 7	0 E	33	38	38	38	38	38	38	38	38	38	38	38
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ALIGNMENTS

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POTENTIAL.
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TRANSMEM 30 50 FOTENT1
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    87.5%;
Similarity 75.0%;
6; Conservative
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Local Similarity
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STRAIN-RD / KW20;
MEDLINE; 95350630.
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1 SAVALTYS 8
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P44010;
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Myers D.A., Trinh J.V., Myers T.R.;

Mol. Gell. Endoction of the overlyl-terminal variant.";

Mol. Cell. Endoction 1. 144:21-35(1998).

-: FUNCTION: THIS IS A RECEPTOR FOR CORTICOTROPIN RELEASING FACTOR.

SHOWS HIGH-AFFINITY CRF BINDING. THE ACTIVITY OF THIS RECEPTOR IS

MEDIATED BY G PROTEINS WHICH ACTIVATE ADENYLYL CYCLASE.

-: SUBCELLULAR LOCATION: INTEGRAL MEMBRANE PROTEIN.

-: FTM. CARBOXYL-TERMINAL SER OR THR RESIDUES MAY BE PHOSPHORYLATED.

-: SIMILARITY: BELONGS TO FAMILY 2 OF G-PROTEIN COUPLED RECEPTORS.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         CORTICOTROPIN RELEASING FACTOR RECEPTOR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  15-DEC-1998 (Rel. 37, Created)
15-DEC-1998 (Rel. 37, Last sequence update)
15-FEB-2000 (Rel. 39, Last annotation update)
CORTICOTROPIN RELEASING FACTOR RECEPTOR 1 PRECURSOR (CRF-R) (CRF1).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Ovis aries (Sheep).
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Mammalia;
Eutheria; Cetartiodactyla; Ruminantia; Pecora; Bovoidea; Bovldae;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Score 43; DB 1; Length 171;
Pred. No. 5.48e+00;
2; Mismatches 0; Indels
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171 AA; 17542 MW; 46E70EE7053DBE13 CRC64;
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PRINTS; PR00249; GPCRSECRETIN.
PROSITE; PS00649; G_PROTEIN_RECEP_F2_1; FALSE_NEG.
PROSITE; PS00650; G_PROTEIN_RECEP_F2_2; 1.
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75.08;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     6; Conservative
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1 SAVALTYS 8
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O62772;
                                                                                                                                                                                                                                                                                                                                                                                                                       CONFLICT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Query Match
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Gaps
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-!- SUBCELLULAR LOCATION: INTEGRAL MEMBRANE PROTEIN (POTENTIAL).
-!- SIMILARITY: TO E.COLI XQHA.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Haemophilus influenzae.
Bacteria; Proteobacteria; gamma subdivision; Pasteurellaceae;
Haemophilus.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Length 415;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Score 42; DB 1; Length 415;
Pred. No. 9.82e+00;
1; Mismatches 1; Indels
                                                                                                                       3 (POTENTIAL).
CYTOPLASMIC (POTENTIAL).
4 (POTENTIAL).
EXTRACELLUAR (POTENTIAL).
                                                     2 (POTENTIAL).
EXTRACELLULAR (POTENTIAL).
                                                                                                                                                                                                                                                                                                                 6 (POTENTIAL).
EXTRACELLULAR (POTENTIAL)
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                                                                                                                                                                                                                                                  5 (POTENTIAL).
CYTOPLASMIC (POTENTIAL).
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                             (POTENTIAL)
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01-NOV-1995 (Rel. 32, Last sequence update)
01-CCT-1996 (Rel. 34, Last annotation update)
NYOCHEFICAL PROTEIN H10507.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   183 AA
1 (POTENTIAL CYTOPLASMIC 2 (POTENTIAL)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       POTENTIAL.
                                                                                                                                                                                                                                                                                                                                                                                                                                                  POTENTIAL
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POTENTIAL.

FT

164

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Matches

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                                                                                                                                                                                                                                                                                                                                                    Cole S.T., Brosch R., Parkhill J., Garnier T., Churcher C., Harris D. Gordon S.V., Eiglmeier K., Gas S., Barry C.E. III, Tekala F., Bacham D., Brown D., Chillingworth T., Connor R., Davies R., Devlin K., Feltwell T., Gentles S., Hamlin N., Holroyd S., Hornsby T., Jagels K., Krogh A., McLean J., Moule S., Murphy L., Oliver S., Osborne J., Quail M.A., Rajandream M.A., Rogers J., Rutter S., Seeger K., Skelton S., Squares S., Squares T., Sulston J.E. Taylor K., Whitehead S., Barrell B.G.,
                                                                                                                                                                                                                                                       Actinomycetales; Corynebacterineae; Mycobacteriaceae; Mycobacterium.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                complete genome sequence.";
Nature 393:537-544(1998).
-!- SUBCELLULAR LOCATION: ATTACHED TO THE MEMBRANE BY A LIPID
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     POTENTIAL.

PUTATIVE LIPOPROTEIN LPRE.

N-ACYL DIGLYCERIDE (POTENTIAL).

E3DCE415A91DAAFE CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Score 40; DB 1; Length 202;
Pred. No. 3.03e+01;
2; Mismatches 0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Eukàryota; Metazoa; Echinodermata; Echinozoa; Echinoidea;
Euechinoidea; Echinacea; Echinoida; Strongylocentrotidae;
                                                                                                                                                                                                                                   Bacteria; Firmicutes; Actinobacteria; Actinobacteridae;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Hypothetical protein; Membrane; Lipoprotein; Signal.
SIGNAL 1 28 POTENTIAL.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Strongylocentrotus purpuratus (Purple sea urchin). Mitochondrion.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            MEDLINE; 89011951.
Jacobs H.T., Elliott D.J., Math V.B., Farquharson
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               01-APR-1990 (Rel. 14, Last sequence update)
15-JUL-1998 (Rel. 36, Last annotation update)
ATP SYNTHASE A CHAIN (EC 3.6.1.34) (PROTEIN 6)
                                                                                                   01-0CT-1996 (Rel. 34, Created)
01-0CT-1996 (Rel. 34, Last sequence update)
15-FEB-2000 (Rel. 39, Last annotation update)
LUMATIVE LIPOPROTEIN LPRE PRECURSOR.
LPRE OR RVI252C OR MICY50 30
                                                                 202 AA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       229 AA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        01-APR-1990 (Rel. 14, Created)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            29 29 N 202 AA; 20442 MW;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    EMBL; Z77137; CAB00900.1; -. TUBERCULIST; RV1252C; -.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     83.3%;
Similarity 71.4%;
5; Conservative
                                                                                                                                                                                                                Aycobacterium tuberculosis
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     STANDARD;
                                                                     STANDARD;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ANCHOR (POTENTIAL).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Strongylocentrotus.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Query Match
Best Local Similarity
                                                                                                                                                                                                                                                                                                SEQUENCE FROM N.A.
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                                                                                                                                                                                                                                                                                                                                       MEDLINE; 98295987
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         169 TVALTYA 175
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                                                                                                                                                                                                                                                                                                                     STRAIN-H37RV
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P15995;
                                                                 LPRE_MYCTU
Q11065;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  SEQUENCE
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                                             RESULT
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Mathlopoulos C., Mueller J.P., Slack F.J., Murphy C.G., Patankar S., Bukusoglu G., Sonenshein A.L.;

Bukusoglu G., Sonenshein A.L.;

Bukusoglu G., Sonenshein A.L.;

Bukusoglu G., Sonenshein A.L.;

Mathlos Subtilis dipeptide transport system expressed early

during sporulation.",

Mol. Microbiol. 5:1903-1913(1991).

-I- FUNCTION: PART OF THE BINDING-PROTEIN-DEPENDENT TRANSPORT SYSTEM

FON DIPEPTIDES; PROBABLY RESPONSIBLE FOR THE BINDING OF DIPEPTIDES

MITH HIGH APEINITY. IS EXPRESSED TO FACILITATE ADAPTATION TO

NUTRIENT DEFICIENCY CONDITIONS, WHICH ALSO INDUCE SPORULATION.

-I- SUBCELLULAR LOCATION: ATTACHED TO THE MEMBRANE BY A LIPID ANCHOR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              DEVELORMENTAL STAGE: EXPRESSED EARLY DURING SPORULATION.
INDUCTION: NUTRIENT DEFICIENCY CONDITIONS.
SIMILARITY: BELONGS TO THE BACTERIAL EXTRACELLULAR SOLUTE-BINDING PROTEIN FAMILY.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Gaps
                                                                                                                               Gaps
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Peptide transport; Transport; Membrane; Signal; Sporulation;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Score 41; DB 1; Length 543;
Pred. No. 1.74e+01;
3; Mismatches 0; Indels
                                                                                      Length 183;
                                                                                                                             0; Indels
                     POTENTIAL.
B97E2F235E49B267 CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                       Bacteria; Firmicutes; Bacillus/Clostridium group; Bacillus/Staphylococcus group; Bacillus.
                                                                                  Score 41; DB 1; LA Pred. No. 1.74e+01;
                                                                                                                                                                                                                                                                                                                                                          update)
on update)
                                                                                                                             3; Mismatches
                                                                                                                                                                                                                                                                                                                                                    01-FEB-1996 (Rel. 33, Last sequence updat 15-JUL-1998 (Rel. 36, Last annotation upo DIPEPTIDE-BINDING PROTEIN DPPE PRECURSOR.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        EMBL, X56578; CAA40006.1; --
PIR, 516651; S1651.
HSSP, P06202, 1RKM.
SUBTILIST; BG10846; DPPE.
PROSITE; PS00013; PROKAR_LIPOPROTEIN; 1.
PROSITE; PS01040; SBP_BACTERIAL_5; 1.
PFAM; PF00496; SBP_BACTERIAL_5; 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     POTENTIAL.
88 PC
170 PC
20814 MW;
                                                                                                                                                                                                                                                                                                                                       01-AUG-1992 (Rel. 23, Created)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            23 1
61818 MW;
                                                                                  85.4%;
larity 62.5%;
Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       85.4%;
ilarity 62.5%;
Conservative
                                                                                                                                                                                                                                                                                              STANDARD;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 22
543
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23
543 AA;
68
150
183 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Query Match
Best Local Similarity
                                                                                                     Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                          Bacillus subtilis.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        SEQUENCE FROM N.A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    MEDLINE; 92114768.
                                                                                                                                                                    SAIALAYT 171
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         388 PAITLTYS 395
                                                                                                                                                                                                         1 SAVALTYS 8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 (PROBABLE)
                                                                                                                                                                                                                                                                                                                                                                                                                         OR DCIAE
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                                                                                                                                                                                                                                                                                           DPPE_BACSU
. P26906;
    TRANSMEM
TRANSMEM
                                           SEQUENCE
                                                                                  Query Match
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Gaps

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1 SAVALIYS 8

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Matches

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SIGNAL

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                                                                                                                                                                                                                                                                                 This SWISS-PROT entry is copyright. It is produced through a collaboration between the Swiss Institute of Bioinformatics and the EMBL outstation-the Buropean Bioinformatics Institute. There are no restrictions on its use by non-profit institutions as long as its content is in no way modified and this statement is not removed. Usage by and for commercial entities requires a license agreement (See http://www.isb-sib.ch/announce/or send an email to license@isb-sib.ch).
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01-JUN-1994 (Rel. 29, Last sequence update)
01-NUV-1997 (Rel. 35, Last annotation update)
CORTICOTROPIN RELEASING FACTOR RECEPTOR 1 PRECURSOR (CRF-R) (CRF1).
CRHRI OR CRHR.
FUNCTION: UTILIZATION OF PURINES AS SECONDARY NITROGEN SOURCES, WHEN PRIMARY SOURCES ARE LIMITING.
                                                       -i - CATALYTIC ACTIVITY: ALLANTOATE + H(2)0 = (-) -UREIDOGLYCOLATE
                                                                                                           -i- PATHWAY: SECOND STEP IN THE DEGRADATION OF ALLANTOIN (PURINE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Eutheria; Metazoa; Chordata; Craniata; Vertebrata; Mammalia;
Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Length 343;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          A -> S (IN REF. 2).
WV -> SL (IN REF. 2).
; OF9CBOFBA5EB76F1 CRC64;
                                                                                                                                                         CATABOLISM).
-!- INDUCTION: REPRESSED BY NITROGEN.
-!- SIMILARITY: STRONG, TO N.CRASSA ALLANTOICASE.
-!- SIMILARITY: TO UREIDOGLYCOLATE HYDROLASE (DAL3).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Score 40; DB 1; Le
Pred. No. 3.03e+01;
1; Mismatches 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      415 AA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    343 AA; 38714 MW;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Hydrolase; Purine metabolism.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 EMBL; M64720; AAA34554.1; -. EMBL; X60460; CAA42994.1; -. EMBL; Z38061; CAA86189.1; -. PIR; JH0442; JH0442. SGD; L0000475; DAL2.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               83.3%;
75.0%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         6; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         STANDARD;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Wus musculus (Mouse)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   SEQUENCE FROM N.A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                204 GAVALKYS 211
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ω
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     CRFR_MOUSE
P35347;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       SEQUENCE
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            CONFLICT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Matches
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         SOUND THE PART OF THE PROPERTY OF THE PROPERTY
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ö
                                    mitochondrial DNA.";
J. Mol. Biol. 202:185-217(1988).
-!- FUNCTION: KEY COMPONENT OF THE PROTON CHANNEL; IT MAY PLAY A
DIRECT ROLE IN THE TRANSLOCATION OF PROTONS ACROSS THE MEMBRANE.
-!- SUBUNIT: F-TYPE ATPRASES HAVE 2 COMPONENTS, CF(1) - THE CATALYTIC
CORE - AND CF(0) - THE MEMBRANE PROTON CHANNEL. CF(1) HAS FIVE
SUBUNITS: ALPHA(3), BETA(3), GAMAA(1), DELTA(1), EPSILON(1). CF(0)
HAS THREE MAIN SUBUNITS: A, B AND C.
-!- SUBCELLULAR LOCATION: INTEGRAL MEMBRANE PROTEIN.
-! SIMILARITY: BELONGS TO THE ATPASE A CHAIN FAMILY.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Yoo H.S., Cooper T.G.;
"Sequences of two adjacent genes, one (DAL2) encoding allantoicase
and another (DGCI) sensitive to nitrogen-catabolite repression in
Saccharomyces cerevisiae.";
Gene 104:55-62(1991).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Saccharomyces cerevisiae (Baker's yeast).
Eukaryota; Fungi; Ascomycota; Saccharomycetes; Saccharomycetales;
Saccharomycetaceae; Saccharomyces.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       STRAIN-SIBEC. AB972;
Barrell B.G., Badcock K., Bankier A.T., Bowman S., Brown D.,
Barrell B.G., Badcock K., Copsey T., Dear S., Devlin K., Fraser C.M., Connor R., Copsey T., Dear S., Devlin K., Fraser Gentles S., Hamlyn N., Horsnell T.S., Hunt S., Jagels K., Jones Louis E., Lye G., Moule S., Moule T., Odell C., Pearson D.,
Rajandream M.A., Riles L., Rowley N., Skelton J., Smith V.,
Whitehead S.,
Submitted (DEC-1994) to the EMBL/GenBank/DDBJ databases.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Lee F.-J.S., Moss J.; "Cloning of a Saccharomyces cerevisiae gene encoding a protein homologous to allanticase of Neurospora crassa."; Yeast 7:993-995(1991).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              EMBL; X12631; CAA31157.1; ALT_INIT.
PIR; S01505; S01505.
PRINTS; PR00123; ATPASEA.
PROSITE; PS00449; ATPASE_A; 1.
PFAM; PF00119; ATP-Synt_A; 1.
Pydrogen ion transport; CF(0); Mitochondrion; Transmembrane.
SEQUENCE 229 AA; 25556 MW; 4BE7F4872DF5EA7A CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Score 40; DB 1; Length 229;
Pred. No. 3.03e+01;
2; Mismatches 1; Indels
            "Nucleotide sequence and gene organization of sea urchin
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          01-MAY-1992 (Rel. 22, Created)
01-MAY-1992 (Rel. 22, Last sequence update)
01-FEB-1996 (Rel. 32, Last annotation update)
DAL2 OR ALCI OR YIR029W.
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Similarity 62.5%;
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SEQUENCE FROM N.A.
MEDLINE; 92206079.
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P25335;
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CORTICOTROPIN RELEASING FACTOR RECEPTOR
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P35353;
P3-5353;
C1-JUN-1994 (Rel. 29, Last sequence update)
15-JUL-1998 (Rel. 29, Last sequence update)
CORTICOTROPIN RELEASING FACTOR RECEPTOR 1 PRECURSOR (CRF-R) (CRF1).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Chang C.P., Pearse R.V. II, O'Connell S., Rosenfeld M.G.; "Identification of a seven transmembrane helix receptor for corticotropin-releasing factor and sauvagine in mammalian brain."; Neuron 11:1187-1195(1993).
EMBL; X72305; CAA51053.1; -.
BTR; S39535; S39535.
GCRDB; GCR_0848; -.
MGD; MGI:88498; CRHR.
MFINTS; PR00249; GPORSECRETIN.
PROSITE; PS00649; G_PROTEIN_RECEP_F2_1; 1.
PROSITE; PS00650; G_ROTEIN_RECEP_F2_2; 1.
PRAM; PF00002; 7tm_2; 1.
PRAM; PF00002; 7tm_2; 1.
PRAM; PF00002; 7tm_2; 1.
PRAM; PS00002; 7tm_2; 1.
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MEDLINE; 94062694.
Perrin M.H., Donaldson C.J., Chen R., Lewis K.A., Vale W.W.;
"Cloning and functional expression of a rat brain corticotropin releasing factor (CRF) receptor.";
Endocrinology 133:3058-3061(1993).
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Rattus norvegious (Rat).
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Mammalia;
Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Rattus.
                                                                                                                                                                                                                                                                                                                    Score 40; DB 1; Length 415;
Pred. No. 3.03e+01;
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CYTOPLASMIC (POTENTIAL).
6 (POTENTIAL).
EXTRACELLULAR (POTENTIAL).
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EXTRACELLULAR (POTENTIAL).
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CYTOPLASMIC (POTENTIAL).
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CYTOPLASMIC (POTENTIAL).
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415 AA;
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                                           Tagi-Morris C., Buczko E., Geng Y., Gamboa-Pinto A., Dufau M.L.;
"The genomic structure of the rat corticotropin releasing factor
receptor. A member of the class II G protein-coupled receptors.";
J. Biol. Chem. 271:14519-14525(1996).
-!- FUNCTION: THIS IS A RECEPTOR FOR CORTICOTROPIN RELEASING FACTOR.
SHOWS HIGH-AFFINITY CRF BINDING. THE ACTIVITY OF THIS RECEPTOR IS
MEDIATED BY G PROTEINS WHICH ACTIVATE ADENVLYL CYCLASE.
-!- SUBCELLULAR LOCATION: INTEGRAL MEMBRANE PROTEIN.
-!- TISSUE SPECIFICITY: ENTIRE NERVOUS SYSTEM.
-!- TISSUE SPECIFICITY: ENTIRE NERVOUS SYSTEM.
-!- SIMILARITY: BELONGS TO FAMILY 2 OF G-PROTEIN COUPLED RECEPTORS.
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EXTRACELLULAR (POTENTIAL).
5 (POTENTIAL).
CYTOPLASMIC (POTENTIAL).
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CYTOPLASMIC (POTENTIAL).
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DR EMBL; U53496; AAC53519.1; JOINED.
DR EMBL; U53496; AAC53519.1; JOINED.
DR CRDB; GCR_0819; ...
R GCRDB; GCR_1947; ...
R GCRDB; GCR_1144; ...
R GCRDB; GCR_1446; ...
R PRINTS; PRO0249; GPCRECRETIN.
R PRINTS; PRO0649; G_PROTEIN_RECEP_F2_1; 1.
PROSITE; PS00650; G_PROTEIN_RECEP_F2_1; 1.
PROSITE; PS00650; G_PROTEIN_RECEP_F2_2; 1.
PRAM; PPRO0002; 7tm_2; 1.
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EMBL; 125438; AAA53519.1; -:
EMBL; 1053486; AAC53519.1; -:
EMBL; 053486; AAC53519.1; JOINED.
EMBL; 053487; AAC53519.1; JOINED.
EMBL; 053489; AAC53519.1; JOINED.
EMBL; 053489; AAC53519.1; JOINED.
EMBL; 053491; AAC53519.1; JOINED.
EMBL; 053492; AAC53519.1; JOINED.
EMBL; 053493; AAC53519.1; JOINED.
EMBL; 053493; AAC53519.1; JOINED.
EMBL; 053493; AAC53519.1; JOINED.
EMBL; 053493; AAC53519.1; JOINED.
FISSUE=TESTIS;
MEDLINE; 96278921.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Dautzenberg F.M. Dietrich R., Palchaudhuri M.R., Spiess J.;
Dautzenberg F.M. Dietrich R., Palchaudhuri M.R., Spiess J.;
Identification of two corticotropin-releasing factor receptors from Xenopus laevis with high ligand selectivity: unusual pharmacology of the type 1 receptor.";
In Everyor I receptor.";
In FUNCTION: THIS IS A RECEPTOR FOR CORTICOTROPIN RELEASING FACTOR. SHOWS HIGH-AFFINITY BINDING FOR UROTENSIN I. THE ACTIVITY OF THIS RECEPTOR IS MEDIATED BY G PROTEINS WHICH ACTIVATE ADENYLYL CYCLASE (BY SIMILARITY).
IS SUBCELLUIAR LOCATION: INTEGRAL MEMBRANE PROTEIN COUPLED RECEPTORS.
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CORTICOTROPIN RELEASING FACTOR RECEPTOR
                                                                                        Gaps
                                                                                                                                                                                                                                                                                            15-UUL-1998 (Rel. 36, Created)
15-UUL-1998 (Rel. 36, Last sequence update)
15-FEB-2000 (Rel. 39, Last annotation update)
CORTICOTROPIN RELEASING FACTOR RECEPTOR 1 PRECURSOR (CRF-R) (CRF1).
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PRINTS, GCR_254; -
PROSITE; PSO0649; G_PROTEIN_RECEP_F2_1; 1.
PROSITE; PSO0660; G_PROTEIN_RECEP_F2_2; 1.
PROSITE; PSO0600; 7tm_2; 1.
G-protein coupled receptor; Transmembrane; Glycoprotein; Signal.
SIGNAL
                                                                                                                                                                                                                                                                                                                                                                                           Xenopus laevis (African clawed frog).
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Amphibia;
Batrachia; Anura; Mesobatrachia; Pipoidea; Pipidae; Xenopodinae;
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                                           Score 40; DB 1; Length 415;
Pred. No. 3.03e+01;
2; Mismatches 1; Indels
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EXTRACELLULAR (POTENTIAL).
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EXTRACELLULAR (POTENTIAL).
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        47842 MW; 48D6704B31D4C013 CRC64;
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CYTOPLASMIC (PO
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                                               Query Match
Best Local Similarity 62.5%;
Matches 5; Conservative
               415 AA;
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                                                                                                                               215 TAIVLTYS 222
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1 SAVALTYS 8
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01-NOV-1997 (Rel. 35, Last sequence update)
15-JUL-1998 (Rel. 36, Last annotation update)
CORTICOTROPIN RELEASING FACTOR RECEPTOR 1 PRECURSOR (CRF-R) (CRF1).
Gallus gallus (Chicken).
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Archosauria; Aves;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             MEDLINE; 96107136.
Yu J., Xie L.Y., Abou-Samra A.-B.;
Yu J., Xie L.Y., Abou-Samra A.-B.;
Yu J., Xie L.Y., Abou-Samra A.-B.;
Molecular cloning of a type A chicken corticotropin-releasing factor receptor with high affinity for urotensin I.";
Endocrinology 137:192-197(1996).
-!- FUNCTION: THIS IS A RECEPTOR FOR CORTICOTROPIN RELEASING FACTOR.
SHOWS HIGH-AFFINITY BINDING FOR UROTENSIN I. THE ACTIVITY OF THIS RECEPTOR IS MEDIATED BY G PROTEINS WHICH ACTIVATE ADENYLYL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     CORTICOTROPIN RELEASING FACTOR RECEPTOR
                                                                                                                                                                Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        -i- SUBCELLULAR LOCATION: INTEGRAL MEMBRANE PROTEIN.
-i- SIMILARITY: BELONGS TO FAMILY 2 OF G-PROTEIN COUPLED RECEPTORS.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     GCRDB; GCR_1180; -
PRINES, PRODAG49; GPCRSECRETIN.
PROSITE; PRO0649; G_PROTEIN_RECEP_F2_1; 1.
PROSITE; PS00650; G_PROTEIN_RECEP_F2_2; 1.
PROMITE; PS00050; 7tm_2; 1.
G-protein coupled receptor; Transmembrane; Glycoprotein; Signal.
SIGNAL
                                                                                                                                                                ö
                                                                                                            Score 40; DB 1; Length 415;
Pred. No. 3.03e+01;
2; Mismatches 1; Indels
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CYTOPLASMIC (POTENTIAL).
6 (POTENTIAL).
EXTRACELLULAR (POTENTIAL).
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POTENTIAL.
POTENTIAL.
POTENTIAL.
74ED24C17907B74D CRC64;
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CYTOPLASMIC (POTENTIAL).
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CYTOPLASMIC (POTENTIAL).
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78 PC
90 PC
47786 MW;
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                                                                                                                    83.3%;
Similarity 62.5%;
5; Conservative
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3339
420
420
50
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78
90
415 AA;
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Best Local Similarity
Matches 5; Conser
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Matches
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**REDLINE; 95110332.

**ROSS P.C., Kostas C.M., Ramabhadran T.V.;

**ROSS P.C., Kostas C.M., Ramabhadran T.V.;

**I variant of the human corticotropin-releasing factor (CRF)

**I receptor: cloning, expression and pharmacology.";

**I receptor: cloning, expression and pharmacology.";

**Blochem: Blophys: Res. Commun. 205:1836-1847(1994).

**I FUNCTION: THIS IS A RECEPTOR FOR CORTICOTROPIN RELEASING FACTOR.

**SHOWS HIGH-AFFINITY CRF BINDING. THE ACTIVATY OF THIS RECEPTOR IS CORTICULAR LOCATION: INTEGRAL MEMBRANE FROTEIN.

**I SUBCELLULAR LOCATION: INTEGRAL MEMBRANE FROTEIN.

**I SUBCELLULAR LOCATION: INTEGRAL MEMBRANE FROTEIN.

**C II SUBCELLULAR LOCATION: INTEGRAL MEMBRANE.

**C II STATILARITY: EBELONGS TO FAMILY 2 OF G-PROTEIN COUPLED RECEPTORS.
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                                                                                             Gaps
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STANDARD; PRT; 444 AA.
P34998; Q13008;
01-FEB-1994 (Rel. 28, Created)
01-FEB-1994 (Rel. 28, Last sequence update)
15-DEC-1998 (Rel. 37, Last annotation update)
CORTICOTROPIN RELEASING FACTOR RECEPTOR 1 PRECURSOR (CRF-R) (CRF1).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TISSUE-BRAIN;
MEDLINE; 94063063.
WYta N., Laurent P., Lefort S., Chalon P., Lellas J.-M., Kaghad M.,
le Fur G., Caput D., Ferrara P.;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      "Primary structure and functional expression of mouse pituitary and human brain corticotrophin releasing factor receptors."; FEBS Lett. 335:1-5(1993).
                                                                                           ö
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"Expression cloning of a human corticotropin-releasing-factor
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Sakai K., Yamada M., Horiba N., Wakui M., Demura H., Suda T.;
Submitted (DEC-1997) to the EMBL/GenBank/DDBJ databases.
                                                                                                                                                                                                                                                                                            Homo sapiens (Human).
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Mammalia;
Eutheria; Primates; Catarrhini; Hominidae; Homo.
                                                                 Score 40; DB 1; Length 420; Pred. No. 3.03e+01;
POTENTIAL.
POTENTIAL.
POTENTIAL.
8C5C992925F62316 CRC64;
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                                                                                          2; Mismatches
83 PO
95 PO
103 PO
48600 MW;
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TISSUE-HIPPOCAMPUS;
                                                                83.3%;
similarity 62.5%;
5; Conservative
83
95
103
420 AA;
                                                             Query Match
Best Local Similarity
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MEDLINE; 94022296.
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-> D (IN ISOFORM CRF-R3).
MISSING (IN ISOFORM CRF-R2 AND ISOFORM
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PROSITE; PS00650; G_PROTEIN_RECEP_F2_2; 1.
PFAM; PF00002; 7tm_2; 1.
G-protein coupled receptor; Transmembrane; Glycoprotein; Signal; Phosphorylation; Alternative splicing.
SIGNAL
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Pred. No. 3.03e+01;
2; Mismatches 1; Indels
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CYTOPLASMIC (POTENTIAL).
6 (POTENTIAL).
EXTRACELLULAR (POTENTIAL).
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CYTOPLASMIC (POTENTIAL).
4 (POTENTIAL).
EXTRACELLULAR (POTENTIAL).
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CYTOPLASMIC (POTENTIAL).
2 (POTENTIAL).
EXTRACELLULAR (POTENTIAL)
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CYTOPLASMIC (POTENTIAL).
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email to license@isb-sib.ch)
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P48722;
01-FEB-1996 (Rel. 33, Created)
                                                                                                                                                                                                                                                                                                                                             MIM; 122561; -. PRINTS; PRO0249; GPCRSECRETIN
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larity 62.5%;
Conservative
                                                                   AF039523; AAC69993.1;
AF039510; AAC69993.1;
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                                                                                                                                                                                                                                                                     EMBL; U16273; AAC500
GCRDB; GCR_0679; -.
GCRDB; GCR_0680; -.
GCRDB; GCR_086; -.
GCRDB; GCR_086; -.
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AF039520;
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SEQUENCE FROM N.A.
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SEQUENCE FROM N.A
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HSSP;
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                                                                                                                                                                        Gaps
                                                                                            Medians, Joanness. Resident. Resonant B.M., Gullans S.R.; Kajima R., Randall J., Brenner B.M., Gullans S.R.; "Osmotic stress protein 94 (Osp94). A new member of the Hspl10/SSE gene subfamily."; J. Biol. Chem. 271:12327-12332(1996).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             15-FEB-2000 (Rel. 39, Created)
15-FEB-2000 (Rel. 39, Last sequence update)
15-FEB-2000 (Rel. 39, Last annotation update)
0SMOTIC STRESS PROTEIN 94 (HEAT SHOCK 70-RELATED PROTEIN APG-1).
01-FEB-1996 (Rel. 33, Last sequence update)
15-JUL-1999 (Rel. 38, Last annotation update)
OSMOTIC STRESS PROTEIN 94 (HEAI SHOCK 70-RELATED PROTEIN APG-1).
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Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Mammalia;
Eutheria; Primates; Catarrhini; Hominidae; Homo.
                                                Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Mammalia;
Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               DB 1; Length 838;
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K -> E (IN REF. 2).
A -> P (IN REF. 2).
Q -> R (IN REF. 2).
M -> K (IN REF. 2).
W; B2C021DDA7EAF0B1 CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Score 40; DB 1;
Pred. No. 3.03e+
3; Mismatches
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PROSITE; PS00297; HSP70_1; FALSE_NEG.
PROSITE; PS00329; HSP70_2; 1.
PROSITE; PS01036; HSP70_3; 1.
PRAM; PF00012; HSP70; 1.
                                                                                                                                              SEQUENCE FROM N.A.
STRAIN-DDY/STD; TISSUE-TESTIS;
MEDLINE; 97160564.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         94385 MW;
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EMBL; D49482; BAA08446.1; --
HSSP; P19120; INGC.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          83.3%;
Similarity 62.5%;
5; Conservative
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                                          Mus musculus (Mouse)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        838 AA;
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                                                                               SEQUENCE FROM N.A.
                                                                                        96218151
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095757;
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                                                                                                                                                                                      This SWISS-PROT entry is copyright. It is produced through a collaboration between the Swiss Institute of Bioinformatics and the EMBL outstation the European Bioinformatics Institute. There are no restrictions on its use by non-profit institutions as long as its content is in no way modified and this statement is not removed. Usage by and for commercial entities requires a license agreement (See http://www.isb-sib.ch/announce/or send an email to license@illower.
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Nonoguchi K., Fujita J.;
"Cloning and characterization of human apg-1 and apg-2, members of the
hspli0 family, cDNAs and chromosomal assignment of the genes.";
Submitted (FEB-1999) to the EMBL/GenBank/DDBJ databases.
MEDILIES, 9329076.

MEDILIES, 9329076.

MEDILIES, 9329076.

MADICALIES, 9329076.

MADICALIES, 9329076.

MOIGCOLLAR Chenif D., Dellagi K., Arnaout M.A.;

MOICCOLLAR Choing of a novel human hsp70 from a B cell line and its assignment to chromosome 5.";

J. Immunol. 151.801-813 (1993).

SUBCELLULAR LOCATION: CYTOPLASMIC (PROBABLE).

----STMILARITY: BELONGS TO THE HEAT SHOCK PROTEIN 70 FAMILY.

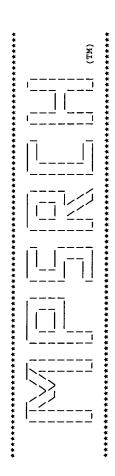
-----STMILARITY: BELONGS DIFFERS FROM THAT SHOWN DUE TO FRAMESHIFTS.
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P34932; 058762;
01-FPB-1994 (Rel. 28, Created)
15-FBB-2000 (Rel. 39, Last sequence update)
115-FBB-2000 (Rel. 39, Last annotation update)
HEAT SHOCK 70 KD PROTEIN 4 (HEAT SHOCK 70-RELATED PROTEIN APG-2)
(HSP70RY).
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Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Mammalia;
Eutheria; Primates; Catarrhini; Hominidae; Homo.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Length 839;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          839 AA; 94505 MW; AB8D89E8132AAE8E CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Score 40; DB 1; Le
Pred. No. 3.03e+01;
3; Mismatches 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      EMBL; AB023421; BAA75063.1; -
PROSITE; PS00297; HS970_1; FALSE_NEG.
PROSITE; PS00329; HSP70_2; 1.
PROSITE; PS01036; HSP70_3; 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       L12723; AAA02807:1; ALT_FRAME P19120; INGC.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              EMBL; AB023420; BAA75062.1; -.
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62.5%;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Local Similarity
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Search completed: Fri Jun 16 15:49:47 2000 Job time: 7 secs.

175 TAVALAYG 182 :||||:|: 1 SAVALTYS 8

1 SAVALIIS 8

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Release 3.1A John F. Collins, Biocomputing Research Unit. Copyright (c) 1993-1998 University of Edinburgh, U.K. Distribution rights by Oxford Molecular Ltd

protein - protein database search, using Smith-Waterman algorithm MPsrch_pp :uo

Fri Jun 16 15:50:05 2000; MasPar time 8.10 Seconds 68.471 Million cell updates/sec abular output not generated.

>US-08-905-046-2 (1-8) from US08905046.pep 48

1 SAVALTYS 8 Description: Perfect Score: Sequence:

PAM 150 Gap 15 Scoring table:

225878 segs, 69334122 residues Searched:

Minimum Match 0% Listing first 45 summaries Post-processing:

sptremb112 Database:

1:sp_archea 2:sp_bacteria 3:sp_fungi 4:sp_human 5:sp_invertebrate 6:sp_nammal 7:sp_nhc 8:sp_organelle 9:sp_phage 10:sp_plant 11:sp_rodent 12:sp_unclassified 13:sp_vertebrate 14:sp_virus

Mean 20.940; Variance 21.070; scale 0.994 Statistics:

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Pred. No.	5.41e+00	5.41e+00	2.86e+01	2.86e+01	2.86e+01	4.89e+01	4.89e+01	4.89e+01	4.89e+01	4.89e+01	8.27e+01	8.27e÷01	8.27e+01	8.27e+01	8.27e+01	8.27e+01	8.27e+01	8.27e+01	8.27e+01	8.27e+01
Description	HEMAGGLUTININ-NEURAMIN	HEMAGGLUTININ-NEURAMIN	CSFA PROTEIN (FRAGMENT	HYPOTHETICAL 58.6 KD P	DNA LIGASE.	T9J23.22 PROTEIN.	PROTEASOME ALPHA SUBUN	YVPB.	DPPE.	HOMOSERINE DEHYDROGENA	54/1 GENE.	CORTICOTROPIN RELEASIN	CSDA PROTEIN (FRAGMENT	CSBA PROTEIN (FRAGMENT	HYPOTHETICAL PROTEIN (370AA LONG HYPOTHETICA	412AA LONG HYPOTHETICA	LIGASE-LIKE PROTEIN.	HS24/P52.	SIMILAR TO GLUTAMATE R
Ω	073490	093161	047122	P74655	P72588	Q9ZU82	030519	034735	034801	Q9W217	009185	077677	047121	047120	053581	057726	Q9Y959	099540	014992	017697
DB	14	14	~	~	~	10	~	N	~	~	m	ø	~	7	~	Н	-	4	4	2
Query Match Length DB	571	571	134	544	699	202	246	250	549	739	81	90	133	135	208	370	412	454	474	479
Query Match	93.8	93.8	87.5	87.5	87.5	85.4	85.4	85.4	85.4	85.4	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3
Score	45	45	42	42	42	41	41	41	41	41	40	40	40	40	40	40	40	40	40	40
Result No.	-	7	m	ಶ	ហ	9	7	ω	σ	10	11	12	13	14	15	16	17	18	19	20

Newcastle disease virus (strain H). Viruses; SSRNA negative-strand viruses; Mononegavirales; Paramyxoviridae; Paramyxovirinae; Rubulavirus.

[1] SEQUENCE FROM N.A.

RESULT 2

ID 093161 PRELIMINARY; PRT; 571 AA.

AC 093161 C. Created)

DT 01-NOV-1998 (TrEMBLrel. 08, Created)

DT 01-NOV-1999 (TrEMBLrel. 10, Last sequence update)

DT 01-MAY-1999 (TREMBLrel. 10, Last annotation update)

CN NEWCastle disease virus (strain H).

OC Viruses; SSRNA negative-strand viruses; Mononegavirales

OC Paramyxoviridae; Paramyxovirinae; Rubulavirus.

RN [1]

RP SEQUENCE FROM N.A.

21 40 83.3 509 3 059759 HYPOTH 22 40 83.3 662 10 004372 ACID 12 24 40 83.3 662 10 004372 ACID 12 25 40 83.3 662 10 086600 ISCHEM 26 40 83.3 840 11 086600 ISCHEM 27 39 81.3 127 5 016913 CYTOCH 10 28 39 81.3 127 5 016913 CYTOCH 10 28 39 81.3 173 8 092X30 NADH DD 31 39 81.3 173 8 092X30 NADH DD 32 39 81.3 173 8 092X30 NADH DD 33 39 81.3 173 8 092X30 NADH DD 34 39 81.3 173 8 092X30 NADH DD 35 39 81.3 265 2 049792 SIRFAC 35 39 81.3 265 2 049792 SIRFAC 36 39 81.3 265 2 049792 SIRFAC 37 39 81.3 265 2 049792 SIRFAC 38 39 81.3 265 2 049792 SIRFAC 39 81.3 39 81.3 30 81.	HYPOTHETICAL 57.8 KD P 8.27e+01 METHYLASE. ACID INVERTASE (EC 3.2 8.27e+01 HEME RECEPTOR. 8.27e+01 ISCHEMIA RESPONSIVE 94 8.27e+01 EGG RECEPTOR FOR SPERM 8.27e+01 CYTCCHROME P450 (FRAGM 1.38e+02 E03D2.1 PROTEIN 1.38e+02 NADH DEHYDROGENASE SUB 1.38e+02 ORF-235. 1.38e+02 PROTEASOME ALPHA-TYPE 1.38e+02 3XD PROTEIN. 1.38e+02 3XD PROTEIN. 1.38e+02 3XD PROTEIN. 1.38e+02		PRT; 571 AA. eated) st sequence update) st annotation update) viruses; Mononegavirales; ae; Rubulavirus. BL/GenBank/DDBJ databases.	DB 14; Length 571; 5.41e+00; tches 0; Indels 0; Gaps 0;
21 40 83.3 22 40 83.3 23 40 83.3 24 40 83.3 25 40 83.3 25 40 83.3 26 40 83.3 27 39 81.3 39 81.3 39 81.3 39 81.3 34 39 81.3 34 39 81.3 34 39 81.3 34 39 81.3 34 39 81.3 34 39 81.3 34 39 81.3 34 39 81.3 34 39 81.3 34 39 81.3 34 39 81.3 34 39 81.3 34 39 81.3 34 39 81.3 34 39 81.3 36 39 81.3 37 39 81.3 38 81.3 38 81.3 39 81.3 39 81.3 41 39 81.3 42 39 81.3 42 39 81.3 44 39 81.3 45 39 81.3 47 39 81.3 48 39 81.3 48 39 81.3 49 81.3 40 073490 073490 073490 073490 01-AuG-1998 (TrEMB OI-Aug-1998 (TrEMB OI-Aug-1999	3 059759 2 P72289 10 006644 11 088600 5 094769 5 045913 6 095240 8 095240 8 095240 8 095240 8 095240 2 049792 2 049792	330 2 092MA9 330 2 095MA9 596 2 0467423 642 2 092GU0 837 1 026179 417 14 089241 490 14 089241 590 13 09W7R4	INARY; PRT; 571 Lrel. 07, Created) Lrel. 07, Last sequence Lrel. 10, Last annotati MINIDASE. virus. rive-strand viruses; M aramyxovirinae; Rubulav aramyxovirinae; Rubulav 3) to the EMBL/GenBank/ 519.1; 62656 MW. AF17E065 C	93.8%; Score 45; 87.5%; Pred. No. rvative 1; Misma
	22.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2	7 7 39 81.3 9 8 81.3 1 3 9 81.3 2 2 3 9 81.3 3 3 9 81.3 5 4 3 9 81.3 5 4 3 9 81.3	SULT 1 PRELIM O73490 O73490 O1-AUG-1998 (TrEMB O1-AUG-1998 (TrEMB HEMAGGLUTININ-NEUR HN. VITUSES; SSRNA neg Paramyxoviridae; P. SEQUENCE FROM N.A. STRAIN-GAMG1; GRIBANOV O.G., STA SULMILTAGA (MAY-199 EMBL; Y17261; CAA. PFOM423; HN; PFOM507; AN A. SECHENCE FOR A.	Ouery Match Best Local Simila Matches 7; C 40 SAVALAYS 1 SAVALAYS

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DNA LIGASE.
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SEQUENCE
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Q9ZU82
Q9ZU82;
                                                                                  Query Match
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P72588
P72588;
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MEDLLINE, 97061201.
KANEKO T., SATO S., KOTANI H., TANAKA A., ASAMIZU E., NAKAMURA Y.,
KANEKO T., SATO S., KUJANA M., SUGIURA M., SASAMOTO S., KIMURA T.,
MIYAJIMA N., HIROSAWA M., SUGIURA M., SASAMOTO S., KIMURA T.,
MIYAZIMI T., MATSUNO A., MURAKI A., NAKAZAKI N., NARUO K., OKUMURA S.,
SHIMPO S., TAKEUCHI C., WADA T., WATANBE A., YAMADA M., YASUDA M.,
TABATA S.;
   STRAIN-H;
GRIBBAO O.G., STAROV S.K., SMOLENSKY V.I., RUDENKO T.V., DRYGIN V.V.,
GRIBBAO A.A.;
"The study of russian strains of Newcastle disease virus.";
Submitted (APR-1998) to the EMBL/GenBank/DDBJ databases.
EMBL; Y17149; CAA76656.1; -.
PFRAM; PF00423; HN: 1.
                                                                                                                                Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                               Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           "Sequence analysis of the genome of the unicellular cyanobacterium
                                                                                                                                                                                                                                                                                                 Escherichia coli.
Bacteria; Proteobacteria; gamma subdivision; Enterobacteriaceae;
Escherichia.
                                                                                                                                                                                                                                                                                                                                                                                                                                                               ö
                                                                                                                                ;
                                                                                                            Length 571;
                                                                                                                                                                                                                                                                                                                                                                                                                                       Score 42; DB 2; Length 134; Pred. No. 2.86e+01; 1; Mismatches 1; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Submitted (JUN-1996) to the EMBL/GenBank/DDBJ databases.
                                                                                                                                 0: Indels
                                                                                                                                                                                                                                                                                                                                                              GAASTRA W., KUSTERS J.G., VAN DIJK L.;
Submitted (APR-1996) to the EMBL/GenBank/DDBJ databases.
EMBL; X97493; CAA66124.1; -.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           PRELIMINARY; PRT; 544 AA. P74655 P7655 P7655.
P74655.
P74655.
O1-FEB-1997 (TrEMBLrel. 02, Created)
O1-FEB-1997 (TrEMBLrel. 02, Last sequence update)
O1-MAY-1999 (TrEMBLrel. 10, Last annotation update)
HYPOTHETICAL 58.6 KD PROTEIN.
Bynechocystis sp. (strain PCC 6803).
Bacteria; Cyanobacteria; Chrococcales; Synechocystis.
                                                                                                                                                                                                                                          01-NOV-1996 (TIEMBLIEL. 01, Created)
01-NOV-1996 (TIEMBLIEL. 01, Last sequence update)
01-NOV-1998 (TIEMBLIEL. 07, Last annotation update)
CSFA PROTEIN (FRAGMENT).
                                                                                                          93.8%; Score 45; DB 14; I
larity 87.5%; Pred. No. 5.41e+00;
Conservative 1; Mismatches 0;
                                                                                                                                                                                                                                                                                                                                                                                                            134 134 13916 MW; 8BBE8F84 CRC32;
                                                                                      571 AA; 62492 MW; 9743052F CRC32;
                                                                                                                                                                                                                       134 AA
                                                                                                                                                                                                                        PRT;
                                                                                                                                                                                                                                                                                                                                                                                                                                           87.5%;
75.0%;
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Best Local Similarity 75.0%;
Matches 6; Conservative
                                                                                                                                                                                                                        PRELIMINARY;
                                                                                                                      Best_Local Similarity Matches 7; Conser
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                                                                                                                                                       40 SAVALAYS 47
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                                                                                Hemagglutinin.
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NON_TER
SEQUENCE
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Q47122;
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MEDLINES, 97061201.
MEDLINES, 97061201.
MINATO S., KOTANI H., TANAKA A., ASAMIZU E., NAKAMURA Y.,
MINAJIMA N., HIROSAWA M., SUGIURA M., SASAMOTO S., KIMURA T.,
MINAJIMA N., HIROSAWA M., SUGIURA M., NAKAZAKI N., NARUO K., OKUMURA S.,
SHIMPO S., TAKEUCHI C., WADA T., WATANABE A., YAWADA M., YASUDA M.,
TABATA S.;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       "Sequence analysis of the genome of the unicellular cyanobacterium Synechocystis sp. strain PCC6803. II. Sequence determination of the entire genome and assignment of potential protein-coding regions.";
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Gaps
Synechocystis sp. strain PCC6803. II. Sequence determination of the entire genome and assignment of potential protein-coding regions."; DNA Res. 3:109-136(1996).

EMBL; D9091; BAA18771.1; -.

PFAM, PF00395; SLH; 1.

Hypothetical protein.

SEQUENCE 544 AA; 58631 MW; 027F22B5 CRC32;
                                                                                                                                                                                                                                                                        Gaps
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Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;
Eukaryota; Viridiplantae; Streptophyta; Embryophytes; Spērmatophyta; Magnoliophyta; eudicotyledons;
core eudicots; Rosidae; eurosids II; Brassicales; Brassicaceae;
Arabidopsis.
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Pred. No. 2.86e+01;
1; Mismatches 0; Indels
                                                                                                                                                                                                                 Score 42; DB 2; Length 544;
Pred. No. 2.86e+01;
1; Mismatches 0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                          (
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TABATA S.; Submitted (JUN-1996) to the EMBL/GenBank/DDBJ databases
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Synechocystis sp. (strain PCC 6803).
Bacteria; Cyanobacteria; Chroococcales; Synechocystis.
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Last sequence update)
Last annotation update)
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01-FEB-1997 (TrEMBLrel. 02, Last sequence update)
01-NOV-1999 (TrEMBLrel. 12, Last annotation update)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              669 AA; 74602 MW; 12B2C854 CRC32;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          DNA Res. 3:109-136(1996).
EMBL, D90899; BAA16588 1; -.
PFAM; PF00533; BRCT; 1.
PFAM; PF01653; DNA_119ase_N; 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         01-MAY.1999 (TrEMBLrel. 10, Cr
01-MAY-1999 (TrEMBLrel. 10, La
01-MAY-1999 (TREMBLrel. 10, La
T9U23.22 PROTEIN.
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Similarity 85.7%;
6; Conservative
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Local Similarity 85.7%;
es 6; Conservative
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Best Local Similarity
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                                                                                                                                                                                                                                                                                                                                  364 TVALTYS 370
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   STRAIN-PCC6803;
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2 AVALTYS 8
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Matches

SORERERES

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RA AZEVEDO V., BERTERO M.G., BESSIERES P., BOLOTIN A., BORCHERT S.,
RA BORRISS R., BOURSIER L., BRANS A., BRAUN M., BRIGNELL S.C., BRON S.,
RA BROULLET S., BRUGSHI C.V., CALDWELL B., CADRANO V., CARTER N.M.,
RA CHOI S.K., CODANI J.J., CONNERTON I.F., CUMMINGS N.J., DANIEL R.A.,
RA CHOI S.K., CODANI J.J., CONNERTON I.F., CUMMINGS N.J., DANIEL R.A.,
RA GHIM S.Y., GLASER P., OGFERAV C., FERRARI E., FOUGER D.,
RA GHISEPPI G., GY B.J., HARGA K., HAIRCHY E.J., GRANDI G.,
A GHISEPPI G., GY B.J., HARGA K., HAIRCHY E.J., GRANDI G.,
A HILBERT H., HOLSAPPEL S., HOSONO S., HULLO M.F., ITAYA M., JONES L.,
A GRAYASHI Y., KOSTTER P., KONINGSTEIN G., KROGH S., KULIN C.,
RA KURITA K., LEYINE A., LIU H., MASUDA S., MAUEL C., MEDICUE C.,
RA KURITA K., LEYINE A., LIU H., MASUDA S., MAUEL C., MEDICUE C.,
RA KURITA K., LEYINE A., LIU H., MASUDA S., MAUEL C., MEDICUE C.,
RA KURITA K., LEYINE A., LIU H., MASUDA S., MAUEL C., MEDICUE C.,
RA KURITA K., LEYINE A., LIU H., MASUDA S., MAUEL C., MEDICUE C.,
RA MEDINA N., MELLADO R.P., MIZUNO M., MOBSTL D., NAKAI S., NOBACK M.,
RA PARKO V., POHL T.M., PORTETELLE D., PORWOLLIK S., PRESECAT A.M.,
RA PRESECAN E., PUJIC P., PURNELLE D., PORWOLLIK S., PRESECOTT A.M.,
RA SATO T., SCANLAN E., SCHLEICH S., SCHRODER R., SOEPONE F.,
SCHILLA C., ROCHA E., ROSE M., SADAIE Y.,
RA SATO T., SCANLAN E., SCHLEICH S., SCHRODER R., YOSE M., SADAIE Y.,
RA TAKEUCHI M., TAMANOSHI A., TARAMAR T., TAKAMAR T., TAKAM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        KUNST F., OGASAWARA N., MOSZER I., ALBERTINI A.M., ALLONI G.,
AZEVEDO V., BERTERO M.G., BESSIERES P., BOLOTIN A., BORCHERT S.,
BORRISS R., BOURSIER L., BARDAN A., BRIGNELL S.C., BRON S.,
BROUTLLET S., BRUSCHI C.V., CALDWELL B., CAPUANO V., CARTER N.M.,
CHOI S.K., CODANI J.J., CONNERTON I.F., CUMMINGS N.J., DANIEL R.A.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                KUNST F., OGASAWARA N., YOSHIKAWA H., DANCHIN A.;
Submitted (NOV-1997) to the EMBL/GenBank/DDBJ databases.
EMBL; AF017113; AAC67929.1; -.
EMBL; 29121; CAB15499.1; -.
SEQUENCE Z50 AA; 27511 MW; 93951575 CRC32;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Submitted (NOV-1997) to the EMBL/GenBank/DDBJ databases
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Last sequence update)
Last annotation update)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Bacillus subtilis.
Bacteria: Firmicutes; Bacillus/Clostridium group;
Bacillus/Staphylococcus group; Bacillus.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Score 41; DB 2; L/
Pred. No. 4.89e+01;
3; Mismatches 0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Created)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Nature 390:249-256(1997).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                PRELIMINARY;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Query Match
Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         SEQUENCE FROM N.A.
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MEDLINE; 98044033.
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1 SAVALTYS 8
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DEVINE K.M.;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 STRAIN-168;
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    P SEQUENCE FROM N.A.

SEQUENCE FROM N.A.

SEQUENCE FROM N.A.

STALIL S., SHEA T.P., FUJII C.Y., SHEN M., VANAKEN S.E.,

RA BARNSTEAD M.E., MASON T.M., BOWMAN C.L., RONNING C.M., BENITO M.,

RA CARRERA A.J., CREASY T.H., BUELL C.R., TOWN C.D., NIERWAN W.C.,

RA FRASER C.M., VENTER J.G.;

RI "Arabidopsis thaliana chromosome II BAC T9J23 genomic sequence.";

RI "Arabidopsis thaliana chromosome II BAC T9J23 genomic sequence.";

RI SUDMITTEG (FEB-1999) to the EMBL/GenBank/DDBJ databases.

BE SUBMITTEG (FEB-1999) to the EMBL/GenBank/DDBJ databases.

SEQUENCE 205 AA; 22869 MW; F2A9CGF7 CRC32;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Mycobacterium smegmatis.
Bacteria; Firmicutes; Actinobacteria; Actinobacteridae;
Actinomycetales; Corynebacterineae; Mycobacteriaceae; Mycobacterium.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Gaps
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MEDLINE; 97426045.
KNIPPER N., SHRADER T.E.;
Inactivation of the 20S proteasome in Mycobacterium smegmatis.";
Mol. Microbiol. 25:375-383(1997).
EMBL; AF009645; AAC45615.1;
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MEDLINE; 98044033.
KUNST F., OGASAWARA N., MOSZER I., ALBERTINI A.M., ALLONI G.,
                                                                                                                                                                                                                                                                                       Score 41; DB 10; Length 205;
Pred. No. 4.89e+01;
3; Mismatches 0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        SEQUENCE FROM N.A.
LAZAREVIC V., SOLDO B., RIVOLTA C., REYNOLDS S., MAUEL C.,
KARAMATA D.;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Length 246;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Submitted (NOV-1997) to the EMBL/GenBank/DDBJ databases
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Last sequence update)
Last annotation update)
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Last annotation update)
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Bacteria; Firmicutes; Bacillus/Clostridium group;
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Pred. No. 4.89e+01;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Created)
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05,
08,
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62.5%;
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Best Local Similarity 75.0%;
Matches 6; Conservative
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01-JAN-1998 (TrEMBLrel.
01-NOV-1998 (TrEMBLrel.
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Best Local Similarity
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                                                                                                                                                                                                                                                                                                                                                                                     13 SSIALTYG 20
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                                                                                                                                                                                                                                                                                                                                                                                                                  1 SAVALIYS 8
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034735
034735;
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Gaps

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549 AA.

Length 250; Indels

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DENIZOT F., DEVINE K.M., DUSTERHOFT A., EHRLICH S.D., EMMERSON P.T.,
A FILTZ C., FULITA M., FURER S., GALLERON N.,
A FILTZ C., GLASER P., GOFFEAN A., GALLIZI. A., GALLERON N.,
A HILBERT H., HOLSPER P., GOFFEAN A., GOLGHTLY E.J., GRANDI G.,
A HILBERT H., HOLSPEPL S., HOSONO S., HULLO M.F., TATA M., JONES L.,
A HILBERT H., HOLSPEPLE S., HOSONO S., HULLO M.F., TATA M., JONES L.,
A MURIS B., KARAMARA D., KASHARA Y., KLAER-ELANCHARD M., JONES L.,
A NORIS B., LAPIDIOS A., LARDINGS A., LABER B. J., LABLIC C.,
A MELLADO R.P., MIZUNO M., MOESTL D., NAKAI S., NOBACK M.,
A NOND D., O'RELLIM M., OGRAWA K., OGHWARA A., OUDGED B., SADRKO Y., POHL T.M., PORTETELLE D., PORMOLLIK S., PRESCOTT A.M.,
A NOND D., O'RELLIM M., OGRAWA K., OGHWARA A., SADRES B., SADRO S.,
A RIGGER M., RIVOLTA C., ROCHA B., ROSE M., REYNOLDS S.,
A RIGGER M., TAKOON E., SCHADETER R., SCOFFONE F.,
A SCHIGULI J., SEKOWSKA A., SEROR S.J., SERROR P., SHIN B.S., SOLDO B.,
A SCATO T., SCHLEICH S., SCHADETER R., SCOFFONE F.,
TOSATO V., UCHIYAMA S., VANDENBOL M., VANNIER F., VASSAROTTI A.,
YORAID A., YOSHIRAMA H.F., ZUMSTEIN E., WEITZENBGGER T.,
TOSATO V., WANDATT A., TAMAMOTO K., YASHAND K., YOSHIDA K., YOSHIRAMA H.F., ZUMSTEIN E., WEITZENBGGER T.,
THE COMPLET P., WINDELE B., WEDLER H., WEITZENBGGER T.,
THE COMPLETE W., WENDER E., WEDLER H., WEITZENBGGER T.,
THE COMPLETE W., WINDEL M., YAMAND K., YASHAND K., YASHAND K., YASHAND K., YOSHIRAMA H.F., ZUMSTEIN E., WOSHIRAMA H.F., ZUMSTEIN E., WOSHIRAMA H.F., ZUMSTEIN E., WEBLILLIME BACILLUS THE SUBLILIA."
The COMPLETE W. WIDEN E., SCHADETER W., WELLEL W., WELLEL W., WELLEL W., WELLEL W., WELLE W., WELL
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MEDLINE; 99287316.
NELSON K.E., CLAYTON R.A., GILL S.R., GWINN M.L., DODSON R.J.,
NELSON W.C., KETCHUM K.A.,
MODONALD L., UTTERBACK T.R., MALEK J.A., LINHER K.D., GARRETT M.M.,
STEWART A.M., COTTON M.D., PRATT M.S., PHILLIPS C.A., RICHARDSON D.,
HEIDELBERG J., SOTTON G.G., FLEISCHMANN R.D., WHITE O., SALZBERG S.L.,
SMITH H.O., VENTER J.C., FRASER C.M.;
Evidence for lateral gene transfer between Archaea and bacteria from
genome sequence of Thermotoga maritima.";
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      NELSON K.E., CLAYTON R.A., GILL S.R., GWINN M.L., DODSON R.J.,
HAFT D.H., HICKEY E.K., PETERSON J.D., NELSON W.C., KETCHUM K.A.,
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Pred. No. 4.89e+01;
3; Mismatches 0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               KUNST F., OGASAWARA N., YOSHIKAWA H., DANCHIN A.;
Submitted (NOV-1997) to the EMBL/GenBank/DDBJ databases.
EMBL; A7002571; CAA05576.1; -.
EMBL; 299110; CAB13153.1; -.
HSSP; P06202; 1B52.
PROSITE: PS01040; SBP_BACTERIAL_5; 1.
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01-NOV-1999 (TrEMBLrel. 12, Last sequence update)
01-NOV-1999 (TrEMBLrel. 12, Last annotation update)
HOMOSERINE DEHYDROGENASE (EC 1.1.1.3) (HDH).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          PF00496; SBP_bac_5; 1.

NCE 549 AA; 62579 MW; AAC59FF1 CRC32;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Bacteria; Thermotogales; Thermotoga
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Query Match 85.4%;
Best Local Similarity 62.5%;
Matches 5; Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Nature 390:249-256(1997).
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Q9WZ17
Q9WZ17;
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MATTERI R.L., CARROLL J.A.;
"Partial cDNA sequence of the porcine corticotropin releasing hormone
                                                                                                        MCDONALD L., UTTERBACK T.R., MALEK J.A., LINHER K.D., GARRETT M.M., STEWART A.M., COTTON M.D., PRATT M.S., PHILLIPS C.A., RICHARDSON D., HEIDELBERG J., SUTTON G.G., FLEISCHMANN R.D., WHITE O., SALZBERG S.L. SMITH H.O., VENTER J.C., FRASER C.M.; Submitted (JUN-1999) to the EMBL/Genbank/DDBJ databases.
-1- CATALYTIC ACTIVITY: L-HOMOSERINE + NAD(P)(+) = L-ASPARTATE BETA-
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Gaps
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ID 077677,

AC 077677,

DT 01-NOV-1998 (TrEMBLrel. 08, Created)

DT 01-NOV-1998 (TrEMBLrel. 08, Last sequence update)

DT 01-NOV-1998 (TREMBLrel. 08, Last sequence update)

DT 01-NOV-1998 (TREMBLrel. 08, Last annotation update)

DT 01-NOV-1998 (TREMBLrel. 08, Last annotation update)

DT 01-NOV-1998 (TREMBLRel. 08, Last annotation update)

CORTICOTROPIN RELEASING HORMONE RECEPTOR TYPE I (FRAGMENT).

OC EUkaryota; Metazoa; Chordata; Craniata; Vertebrata; Mammalia;

OC Eutheria: Cetartiodactyla; Suina; Suidae; Sus.

RN [1]

RP SEQUENCE FROM N.A.

RC TISSUE-PLITUTARRY.

RA MATTERI R.L., CARROLL J.A.;

RT "Partial CDNA sequence of the porcine corticotropin releasing har receptor.";

Submitted (JUL-1998) to the EMBL/GenBank/DDBJ databases.
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Eutheria, Cetartiodactyla, Suina, Suidae, Sus.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   KUDLA B., PERSUY M.A., GAILLARDIN C.; "Construction of an expression vector for the fission yeast
                                                                                                                                                                                                                                                                                                             Length 739;
                                                                                                                                                                                                                                                                                                               Score 41; DB 2; Length 739;
Pred. No. 4.89e+01;
3; Mismatches 0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Length 81;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               01-NOV-1996 (TrEMBLrel. 01, Created)
01-NOV-1996 (TrEMBLrel. 01, Last sequence update)
01-NOV-1998 (TrEMBLrel. 08, Last annotation update)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Eukaryota; Fungi; Ascomycota; Archiascomycetes;
Schizosaccharomycetales; Schizosaccharomycetaceae;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Score 40; DB 3; Le
Pred. No. 8.27e+01;
3; Mismatches 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           . 52C180A5 CRC32;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Schizosaccharomyces pombe (Fission yeast).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Schizosaccharomyces pombe.";
Nucleic Acids Res. 16:8803-8617(1988).
EMBL; X707027; CAA30076.1; -
SEQUENCE 81 AA; 8908 MW; 52C180A5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              83.3%;
                                                                                                                                                                                                                                                                                                               Query Match
Best Local Similarity 62.5%;
Matches 5; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Similarity 62.5%;
5; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 PRELIMINARY;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Schizosaccharomyces
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                                                                                                                                                                                                                                                                                                                                                                                       493 TAIALAYS 500
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1 SAVALTYS 8
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1 SAVALTYS 8
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Q09185
Q09185;
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1 SAVALTYS 8
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Bacteria; Proteobacteria; gamma subdivision; Enterobacteriaceae;
Escherichia.
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Bacteria; Proteobacteria; gamma subdivision; Enterobacteriaceae;
Escherichia.
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Pred. No. 8.27e+01;
2; Mismatches 0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Score 40; DB 2; Length 135;
Pred. No. 8.27e+01;
2; Mismatches 0; Indels
                                                                                                                              Score 40; DB 6; Length 90;
Pred. No. 8.27e+01;
2; Mismatches 1; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            STRAIN-F595C;
GAASTRA W., KUSTERS J.G., VAN DIJK L.;
Submitted (APR-1996) to the EMBL/GenBank/DDBJ databases.
EMBL, 797494; CAA66125.1; -
NON_TER 1
NON_TER 133 133
SEQUENCE 133 AA; 13865 MW; CE958B6B CRC32;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         GAASTRA W., KUSTERS J.G., VAN DIJK L.;
Submitted (APR-1996) to the EMBL/GenBank/DDBJ databases.
EMBL; X97495; CAA66126.1; -.
                                                                                                                                                                                                                                                                                                                                                   LT 13
047121
047121;
047121;
01-NOV-1996 (TrEMBLrel. 01, Created)
01-NOV-1996 (TrEMBLrel. 01, Last sequence update)
01-NOV-1998 (TrEMBLrel. 07, Last annotation update)
CSDA PROTEIN (FRAGMENT).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              01-NOV-1996 (TrEMBLrel. 01, Created)
01-NOV-1996 (TrEMBLrel. 01, Last sequence update)
01-AUG-1998 (TrEMBLrel. 07, Last annotation update)
CSBA PROTEIN (FRAGMENT).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     135 AA; 14277 MW; BBD5833B CRC32;
                                                      90 90
90 AA; 10594 MW; 295CFCD7 CRC32;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     135 AA
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EMBL; AF077185; AAC27320.1; -. NON_TER 1 1
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                                                                                                                                 Query Match 83.3%;
Best Local Similarity 62.5%;
Matches 5; Conservative
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Best Local Similarity 71.4%;
Matches 5; Conservative
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Matches 5: Concert
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                                                                                                                                                                                                                              51 TAIVLTYS 58
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| SAVALTYS 8
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2 AVALTYS 8
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2 AVALTYS 8
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SEQUENCE
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NON_TER
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Q47120
Q47120;
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RESULT 15

ID 055581

DT 055581

DT 01-NOV-1996 (TERBLEAL) 01, Created)
DT 01-NOV-1996 (TERBLEAL) 01, Last sequence update)
DT 01-NOV-1996 (TERBLEAL) 01, Last sequence update)
DT 01-NOV-1996 (TERBLEAL) 08, Last annotation update)
NA CRUZ HORD NOVALIANOTON E., CASTRO C., SERVIN-GONZALEZ L.;
NA MEDLINGTON E., CASTRO C., SERVIN-GONZALEZ L.;
NA CRUZ H., PERRZ C., WELLINGTON E., CASTRO C., SERVIN-GONZALEZ L.;
NA MEDLING PROPERSOR OF AN ELISTANOTON E., CASTRO C., SERVIN-GONZALEZ L.;
NA PROPENSOR DE PROPENSOR 11 - NOVALIA 1142 (1994).
NA WHYDOCHARLICAL PROPENSOR 11 - NOVALIA 1141 (1141 (1141 (1141 (1141 (1141 (1141 (1141 (1141 (1141 (1141 (1141 (1141 (1141 (1141 (1141 (1141 (1141 (1141 (1141 (1141 (1141 (1141 (1141 (1141 (1141 (1141 (1141 (1141 (1141 (1141 (1141 (1141 (1141 (1141 (1141 (1141 (1141 (1141 (1141 (1141 (1141 (1141 (1141 (1141 (1141 (1141 (1141 (1141 (1141 (1141 (1141 (1141 (1141 (1141 (1141 (1141 (1141 (1141 (1141 (1141 (1141 (1141 (1141 (1141 (1141 (1141 (1141 (1141 (1141 (1141 (1141 (1141 (1141 (1141 (1141 (1141 (1141 (1141 (1141 (1141 (1141 (1141 (1141 (1141 (1141 (1141 (1141 (1141 (1141 (1141 (1141 (1141 (1141 (1141 (1141 (1141 (1141 (1141 (1141 (1141 (1141 (1141 (1141 (1141 (1141 (1141 (1141 (1141 (1141 (1141 (1141 (1141 (1141 (1141 (1141 (1141 (1141 (1141 (1141 (1141 (1141 (1141 (1141 (1141 (1141 (1141 (1141 (1141 (1141 (1141 (1141 (1141 (1141 (1141 (1141 (1141 (1141 (1141 (1141 (1141 (1141 (1141 (1141 (1141 (1141 (1141 (1141 (1141 (1141 (1141 (1141 (1141 (1141 (1141 (1141 (1141 (1141 (1141 (1141 (1141 (1141 (1141 (1141 (1141 (1141 (1141 (1141 (1141 (1141 (1141 (1141 (1141 (1141 (1141 (1141 (1141 (1141 (1141 (1141 (1141 (1141 (1141 (1141 (1141 (1141 (1141 (1141 (1141 (1141 (1141 (1
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